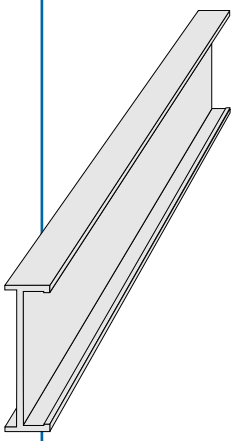
T&B® Cable Tray

Features & Benefits – The Thomas & Betts Advantage – Unique Design Points

I Beam Siderail

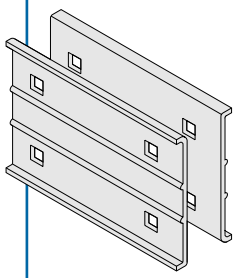
Maximum structural strength.



Aluminum

Snap-in Splice Plates

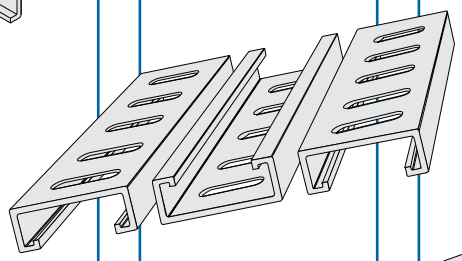
Snap-in aluminum splice plates for easy installation.



Aluminum

Alternating Rungs

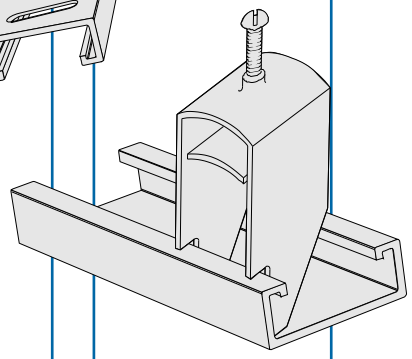
Alternating rungs for top & bottom accessory installation.



Aluminum & Steel

Continuous Open Slot

Rungs have continuous open slot to accept standard strut pipe clamps, and gives complete barrier strip adjustability.



Aluminum & Steel

Thomas&Betts

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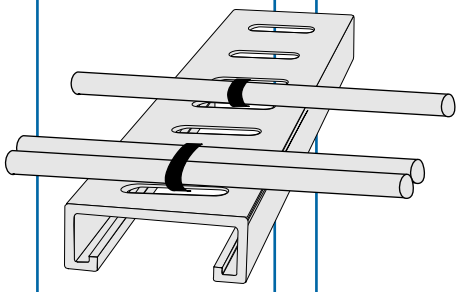
T&B® Cable Tray

Features & Benefits – The Thomas & Betts Advantage – Unique Design Points

Ty-Rap® Cable Tie Slots

Exclusive Ty-Rap® cable tie slots on 1" centers on all Ladder bottoms. Secures cables without kinks and keeps cables uniform.



Aluminum & Steel

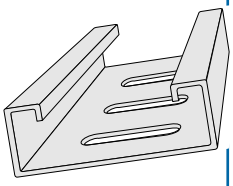
Added Support

Aluminum and Steel Solid bottoms are constructed with a flat sheet for added cable protection.

Aluminum & Steel

Extra Wide Rung Design

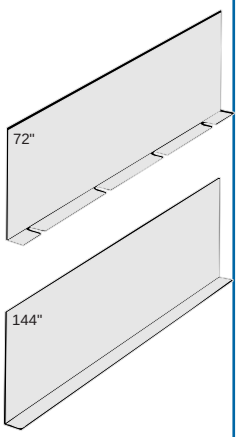
Extra wide rung design for maximum cable bearing surface.



Aluminum & Steel

Adjustable Barrier Strips

Barrier strips are fully adjustable.



Aluminum & Steel

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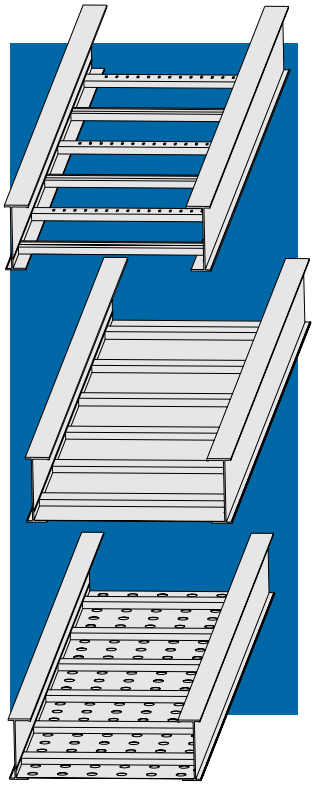
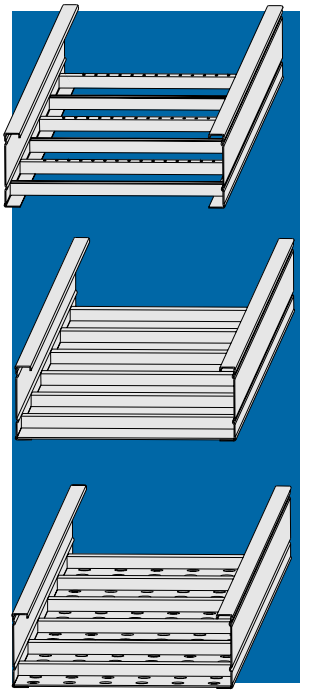
T&B® Cable Tray

Features & Benefits – The Thomas & Betts Advantage – The Complete Line



Complete Line of Aluminum Cable Tray, Fittings and Accessories

Ladder
Ventilated
Solid
6", 9", 12", 18", 24", 30", 36", 42" wide



Complete Line of Steel Cable Tray, Fittings and Accessories

Ladder
Ventilated
Solid
6", 9", 12", 18", 24", 30", 36", 42" wide

Pre-galvanized

Hot Dip Galvanized

Stainless Steel

Types 304 and 316

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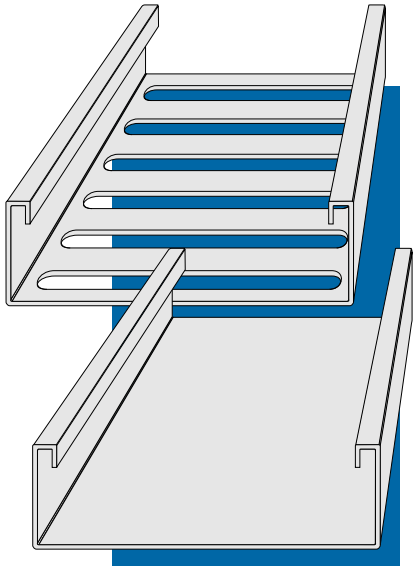
T&B® Cable Tray

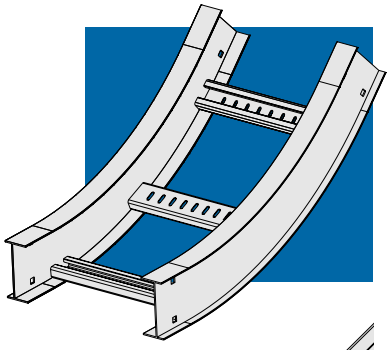
Features & Benefits – The Thomas & Betts Advantage – The Complete Line

One-Piece Light Duty Ventilated and Solid Cable Tray

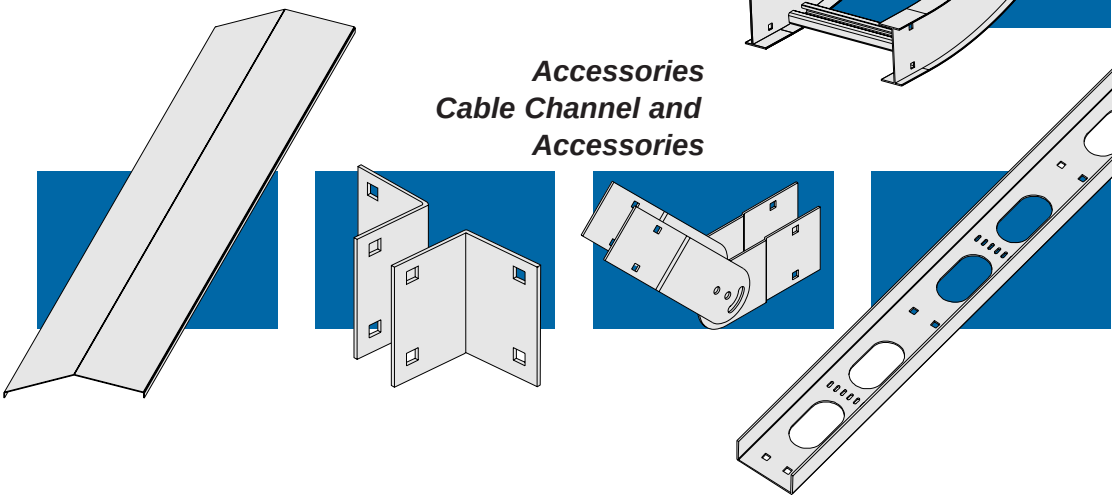
for commercial applications



Complete Line of Fittings



Accessories
Cable Channel and
Accessories



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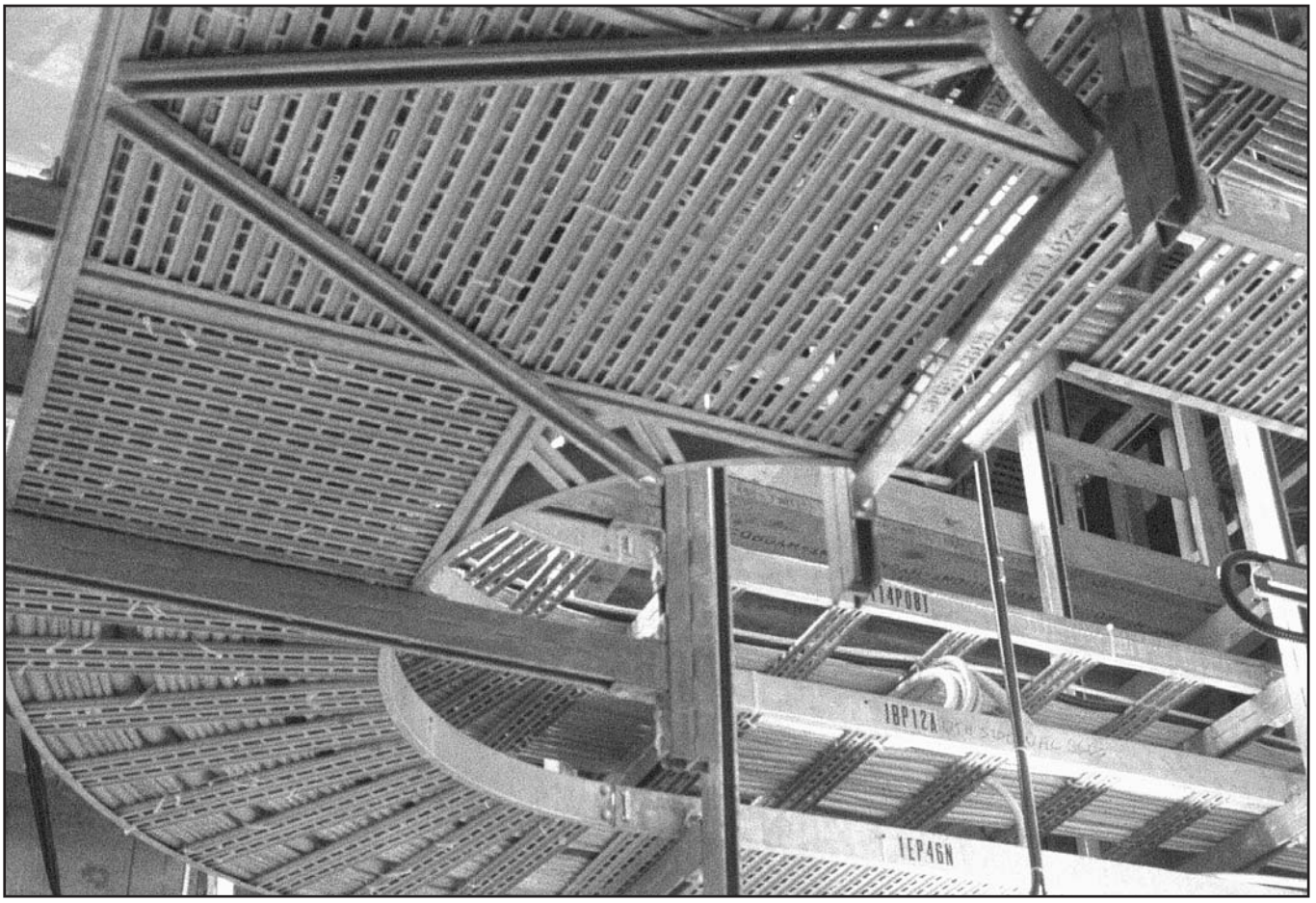
T&B® Cable Tray

Technical Information – Benefits of Cable Tray



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T&B® Cable Tray

Technical Information – Glossary of Terms

Accessories	Devices which are used to supplement the function of straight sections and fittings, and include such items as dropouts, covers, conduit adapters, hold-down devices and dividers.
Cable Tray Connector	A device which joins cable tray straight sections or fittings, or both. The basic types of connectors are: 1. Rigid 2. Expansion 3. Adjustable 4. Reducer
Cable Tray Fitting	A device which is used to change the direction or size of a cable tray system.
Cable Support	A device which provides adequate means for supporting cable tray sections or fittings, or both The basic types of cable tray supports are: 1. Cantilever bracket 2. Trapeze 3. Individual and suspension
Channel Cable Tray	A prefabricated metal structure consisting of a one-piece ventilated bottom or solid bottom channel section, or both, not exceeding 6 inches in width.
Ladder Cable Tray	A prefabricated metal structure consisting of two longitudinal side rails connected by individual transverse members.
Solid Bottom Cable Tray	A prefabricated metal structure consisting of a bottom with no openings within integral or separate longitudinal side rails.
Trough Cable Tray	A prefabricated metal structure greater than 4 inches in width consisting of a ventilated bottom within integral or separate longitudinal side rails.
Horizontal Cross	A cable tray fitting which is suitable for joining cable trays in four directions at 90-degree intervals in the same plane.
Horizontal Bend	A cable tray fitting which changes the direction in the same plane.
Horizontal Tee	A cable tray fitting which is suitable for joining cable trays in three directions at 90-degree intervals in the same plane.
Metallic Cable Tray System	An assembly of cable tray straight section, fitting, and accessories that forms a rigid structural system to support cables.
Reducer	A cable tray fitting which is suitable for joining cable trays of different widths in the same plane. *A straight reducer* has two symmetrical offset sides. *A right-hand reducer,* when viewed from the large end, has a straight side on the right. *A left-hand reducer*, when viewed from the large end, has a straight side on the left.
Straight Section	A length of cable tray which has no change in direction or size.
Ventilated Bottom	A cable tray bottom having openings sufficient for the passage of air and utilizing 60 percent or less of the plan area of the surface to support cables.
Vertical Bend	A cable tray fitting which changes direction to a different plane. *An inside vertical elbow* changes direction upward from the horizontal plane. *An outside vertical elbow* changes direction downward from the horizontal plane.

All Products NEMA Standard

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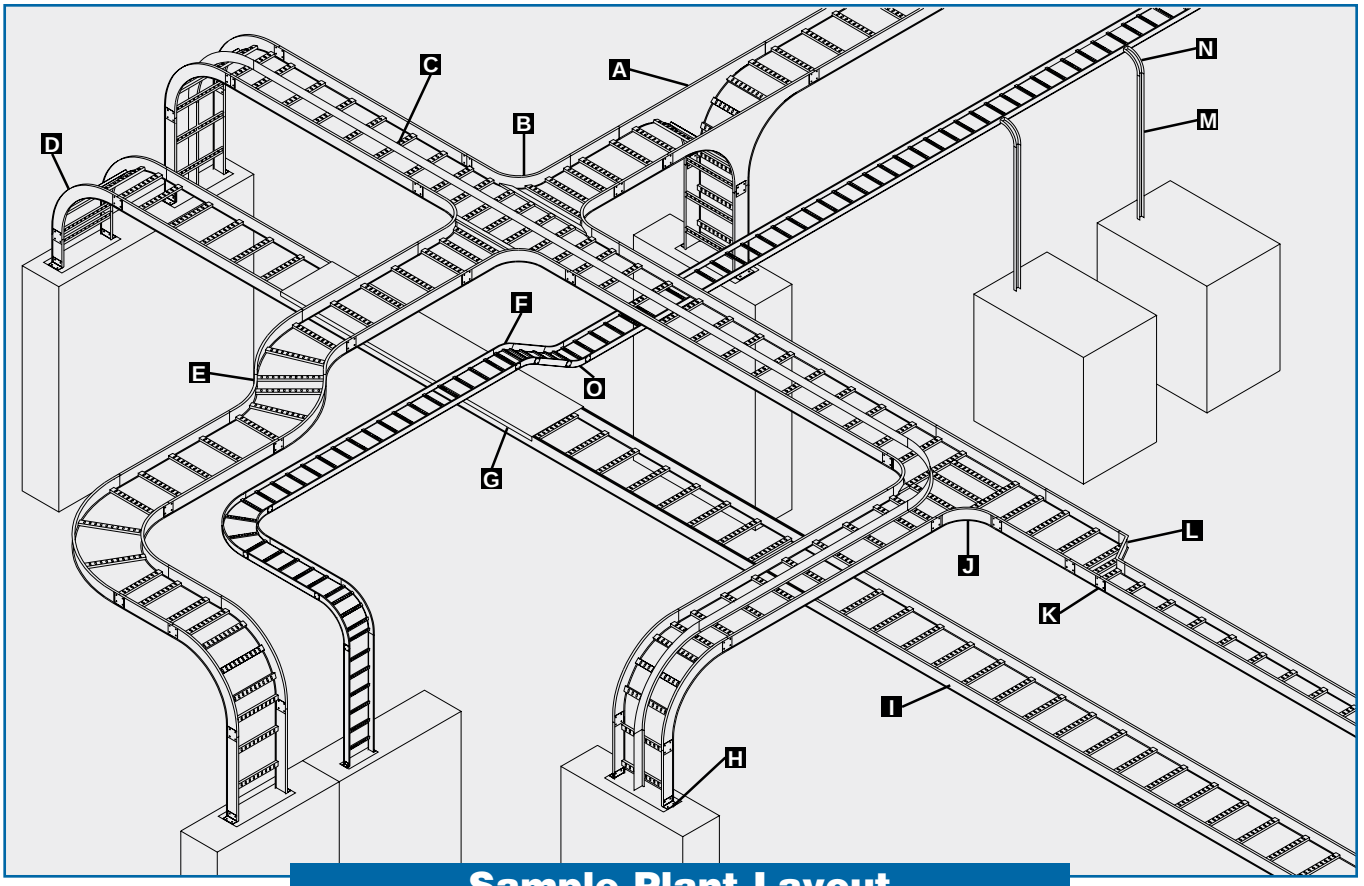
T&B® Cable Tray

Technical Information – System Design



Sample Plant Layout

A	Vertical Tee Up/Down
B	Horizontal Cross
C	Barrier Strip
D	90° Vertical Outside Bend
E	45° Horizontal Bend
F	45° Vertical Outside Bend
G	Solid Flanged Cover
H	Box Connector
I	Ladder Tray
J	Horizontal Tee
K	Splice Plate
L	Reducer
M	Cable Channel
N	Cable Channel – 90° Vertical Outside Bend
O	45° Vertical Inside Bend

APPLICATIONS

COMMERCIAL	INDUSTRIAL
Schools	Petro-Chemical Plants
Hospitals	Automotive Plants
Office Buildings	Paper Plants
Airports	Food Processing
Casinos	Power Plants
Stadiums	Refineries
	Manufacturing
	Mining

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T&B® Cable Tray

Technical Information – Benefits of Cable Tray

THE BENEFITS OF CABLE TRAY

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is less expensive, more reliable, more adaptable to changing needs and easier to maintain. In addition, its design does not contribute to potential safety problems associated with other wiring systems.

An evaluation of the costs and benefits of various wiring systems should be done in the design phase. Unfortunately, many engineers who are unfamiliar with wiring systems avoid the system selection process or defer it until construction—often resulting in higher costs, scheduling delays and a system that will not meet future needs.

Selection of a wiring system that is not the most suitable for a particular application in terms of cost, potential corrosion and electrical considerations can lead to numerous problems, including excessive initial cost, poor design, faulty installation, extra maintenance, future power outages and unnecessary safety concerns.

Cost

Extensive experience has shown that the initial cost of a cable tray installation (including conductor, material and installation labor costs) may be as much as 60% less than a comparable conduit wiring system.

Cable tray systems, including trays, supports, fittings and other materials, are generally much less expensive than conduit wiring systems. In addition, major cost savings are generated by the relative ease of installation. Labor costs of installing a cable tray system can run up to 50 percent less. Total cost savings will vary with the complexity and size of the installation.

Direct cost savings are easy to calculate during the design phase of an installation, but the enormous advantages of cable tray may accrue only over time. The system's reliability, adaptability, ease of maintenance and inherent safety features result in many other types of cost savings, including:

- lower engineering and maintenance costs
- less need to reconfigure system as needs change
- less down time for electrical and data handling systems
- fewer environmental problems resulting from loss of power to essential equipment.

Reliability

Cable tray systems offer unsurpassed reliability, resulting in less need for maintenance and less down time—important considerations for all installations but especially for such industries as data communications and financial services.

In addition, since cable tray is not a closed system, moisture build up problems are eliminated and damage to cable insulation during installation is also greatly reduced.

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T&B® Cable Tray

Technical Information – Benefits of Cable Tray

Adaptability

A major advantage of cable tray systems derives from their adaptability to new needs and technology. The pace of change in the economy, constantly shifting competitive pressures and rapid introduction of innovative technologies are all accelerating. More than ever before, businesses must be prepared to quickly expand facilities, change products or introduce new processes. The flexibility of the wiring system is a key consideration.

Modifying a cable tray system or adding cables to meet new needs is relatively easy because cables can enter or exit a tray at any point. And initial design considerations can build-in extra capacity as part of the planning process. Cable tray's inherent adaptability allows rewiring for future expansion, building redesign or new technologies without disruption or need to replace the entire wiring system.

Maintenance

Cable tray wiring systems require less maintenance than conduit systems. When maintenance is necessary, it is easier, less time-consuming and less labor intensive.

The physical condition and status of both the cable tray and the tray cables can be inspected visually, something that is not possible with conduit systems. In addition, it is also easy to see if there is sufficient capacity in the trays for additional cables. As was noted above, changing or adding cables can also be accomplished without difficulty.

Another comparative benefit of cable tray systems is that they do not act as channels of moisture paths, as conduit wiring systems do. Conduit systems tend to collect condensation resulting from changes in temperature and then channel the moisture to electrical equipment, where it can lead to corrosion and failure.

Cable tray and tray cable are also less susceptible to fire loss than conduit. An external fire usually results in damage to only a few feet of a cable tray system, while wire insulation inside a conduit suffers significant damage and thermoplastic insulation may actually fuse to the conduit.

Safety

Cable tray wiring systems lack the inherent safety concerns of conduit systems.

By its nature, a conduit wiring system can serve as a flow-through for corrosive, explosive and toxic gases in the same way that it channels moisture.

The conduit installation process can also present a safety issue for electricians. The process requires that a conduit system be installed from one enclosure to another before pulling in the conductors, leaving the electricians exposed to any live, energized equipment that may be in the enclosures. In contrast, installers can pull tray cables from near one termination enclosure to the next before they are inserted into the enclosures and then terminated.

Finally, in installations where cable tray can be used as the equipment grounding conductor (per NEC standards), it is easy to visually check the system components as well as conduct checks for electrical continuity.

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T&B® Cable Tray

Technical Information – Cable Tray Selection Process

CABLE TRAY SELECTION PROCESS

A number of basic decisions must be made before a cable tray system can be specified. T&B has developed a simple six-step process to guide you in the process:

1. **Select Material and Finish**
2. **Select the Tray Load Class**
3. **Select the Tray Type**
4. **Select the Tray Size**
5. **Select the Fittings**
6. **Consider Deflection**

Each step is described in detail below. For many applications, however, you may also have to take the following into account:

- Weight of the installation, which affects the cost of the support structure and the ease of installation.
- Corrosion resistance of the material is one of the most important selection criteria. Cable tray materials may not respond the same way in different environments. Chemicals or combinations of chemicals have corrosion effects on some materials that can be compounded by temperature or even the speed at which the corrosive elements contact the cable tray. For example, some grades of stainless steel may be resistant to salt water at high flow rates (perfect for heat exchangers), while exhibiting some corrosion pitting in standing salt water. Only the designer can quantify the various elements that affect the corrosion resistance of the cable tray system in a specific application. While T&B can provide guidance, the designer is responsible for the final selection. For more information, see “Corrosion” section.
- Galvanic effect can cause corrosion even if the cable tray material is resistant to its chemical environment. Dissimilar metals in contact (e.g., aluminum tray on steel supports or bare copper bonding conductor in aluminum tray) in the presence of an electrolyte are susceptible to galvanic effect. If there is a hazard of galvanic corrosion, it may be possible to isolate the tray system from other metals instead of using a more expensive type of tray that would resist corrosion in a given application.
- Melting point and flammability rating are primarily concerns for non-metallic tray. Local building codes may restrict the use of a given product if certain performance levels are not met. Check with the appropriate inspection authorities before specifying the product.
- Relative cost varies dramatically, including material costs that float with the commodity index. For example, stainless steel prices may vary significantly according to daily changes in the nickel index. Tray-Pro™ software simplifies the task of cost comparison by generating multiple bills for different materials.
- Thermal expansion must also be taken into account on a long cable run, especially in areas where temperature variation is extreme. Expansion connectors may be required if the temperature differential is 25°F or greater. Refer to Tables 1 and 2 for expansion plate spacing and gap settings. Two bonding jumpers are required for every pair of splice plates for grounding continuity.

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T&B® Cable Tray

Technical Information – Cable Tray Selection Process

SELECTION STEPS

1. Select Material and Finish

The most suitable material and finish for your application will depend on cost, the potential for corrosion, and electrical considerations. T&B offers cable tray systems fabricated from corrosion-resistant steel, stainless steel and aluminum alloys along with corrosion-resistant finishes, including zinc, PVC and epoxy. Special paint is also available. For more information on material and finish, see the “Material Descriptions” section, page 18.

2. Select the Tray Class

NEMA standard VE-1 defines 12 load classes. (See Figure 1.0.). The classes are designated by a number (8, 12, 16, and 20), specifying maximum span in feet and a letter (A, B, and C), specifying the maximum load (A = 50 lbs./ft., B = 75 lbs./ft., and C = 100 lbs./ft.). The load rating must include the weight of the cables plus any applicable wind or snow loads. The load capacity available for cable is therefore reduced for outdoor applications.

NEMA LOAD/SPAN DESIGNATIONS

Class Designation	Support Span (Feet)	Working Load (lbs./linear foot)
8A	8	50
8B	8	75
8C	8	100
12A	12	50
12B	12	75
12C	12	100
16A	16	50
16B	16	75
16C	16	100
20A	20	50
20B	20	75
20C	20	100

Figure 1.0

For more detailed load information see pages 42-47, listed with respective T&B Cable Trays in this catalog.

Costs vary between different load classes. Since labor and coupling costs are similar for a given length of tray, the heavier classes are more cost-effective on a load length basis. The

CSA STANDARD LOAD CLASSES

Class	Design load at varying support spacings in kg/meter						
	1.5M	2.0M	2.5M	3.0M	4.0M	5.0M	6.0M
A	99	62	45	37	N/A	N/A	N/A
C1	259	164	119	97	N/A	N/A	N/A
D1	N/A	N/A	N/A	179	113	82	67
E	N/A	N/A	N/A	299	189	137	112

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Technical Information – Cable Tray Selection Process

designer should therefore specify the lightest class of tray compatible with the weight requirements of the cable tray.

Tray-Pro™ software provides quick and easy cost comparison of different tray series by generating multiple bills of material.

3. Select the Tray Type

Cable tray is available with three styles of bottom:

Ladder Cable Tray is a prefabricated structure consisting of two longitudinal siderails connected by individual transverse members.

Ventilated Cable Tray is a prefabricated structure consisting of a ventilated bottom within integral or separate longitudinal siderails, with no openings exceeding 4 in. in a longitudinal direction.

Solid Bottom Cable Tray is a prefabricated structure without openings in the bottom.

Ladder tray is most often used because of its cost-effectiveness. The designer has a choice of four nominal rung spacings: 6, 9, 12, and 18 inches. The greatest rung spacing compatible with an adequate cable bearing surface area should be selected. Heavy power cables often require greater cable bearing area due to the possibility of creep in the jacket material of the cable. If this is a concern, consult the cable manufacturer. This condition may require the use of ventilated tray, which also offers additional mechanical protection for the cables.

Local building codes may require totally enclosed cable tray systems under certain conditions. The designer should verify these before specifying the type of tray to be used.

Electromagnetic shielded tray may be used in areas where control or data cables need to be protected from RFI interference. For more information, see the “Electromagnetic Shielded” section of this manual.

4. Select the Tray Size

The width or height of a cable tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 6, 9, 12, 18, 24, 30, 36 and 42 inches.

When specifying width, it is important to remember that the load rating does not change as the width increases. Even with six times the volume, a 36 in. wide tray cannot hold any more weight than a 6 in. wide tray. If the load rating of the tray permits, cable can be piled deeper in the tray. Most tray classes are available in a nominal 3½, 4, 5, 6 and 7 inch height. Cable ties or other spacing devices may be used to maintain the required air space between cables.

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5. Select the Fittings

Fittings are used to change the size or direction of the cable tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be 12, 24, 36 or 48 in., or even greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost. The typical radius is 24 in.

Fittings are also available for 30°, 45°, 60°, and 90° angles. When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points. See Fitting Support diagrams on page G17.

6. Consider Deflection

Deflection of the cable tray affects the appearance of an installation, but it is not a structural issue. In the case of non-metallic cable tray, deflection may be affected by elevated temperatures.

NEMA Load Test. The NEMA load test is a simple beam, uniformly distributed load test. (See Figure 1.2.) This type of test was initially selected because:

- It was easiest to test.
- It represents the worst case beam condition compared to continuous or fixed configurations. When consulting the manufacturer's catalog for deflection information, the designer must verify whether the data shown represents simple or continuous beam deflection. If continuous beam deflection is shown, the calculation factor should be given.

NEMA has one criterion for acceptance under their load test: the ability to support 150% of the rated load.

NEMA LOAD TEST

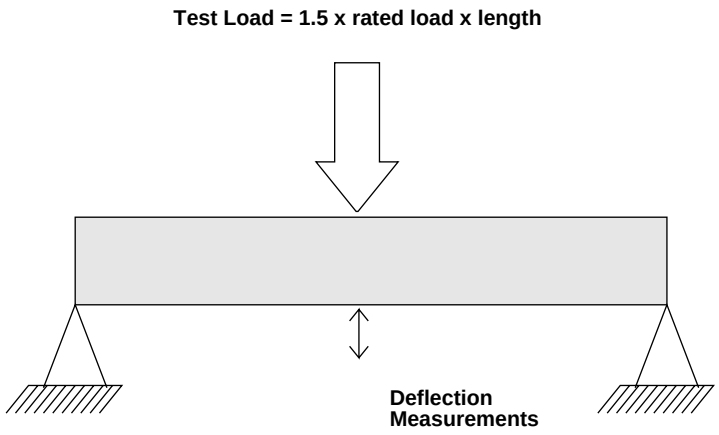

Figure 1.2

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T&B® Cable Tray

Technical Information – Cable Tray Selection Process

Simple vs. Continuous Beam Deflection. (See Figure 1.3.) Theoretical maximum deflection for a simple beam, uniformly distributed load may be calculated as:

$$.0130 \quad \frac{w\,L^4}{E\,I}$$

Where: w = Load in lbs./ft.
L = Length in inches
E = Modulus of Elasticity
I = Moment of Inertia

The maximum deflection calculation for a continuous beam of two spans with a uniformly distributed load is:

$$.00541 \quad \frac{w\,L^4}{E\,I}$$

A continuous beam of two spans therefore has a theoretical maximum deflection of only 42% of its simple beam deflection. As the number of spans increases, the beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

SIMPLE VERSUS CONTINUOUS BEAM DEFLECTION

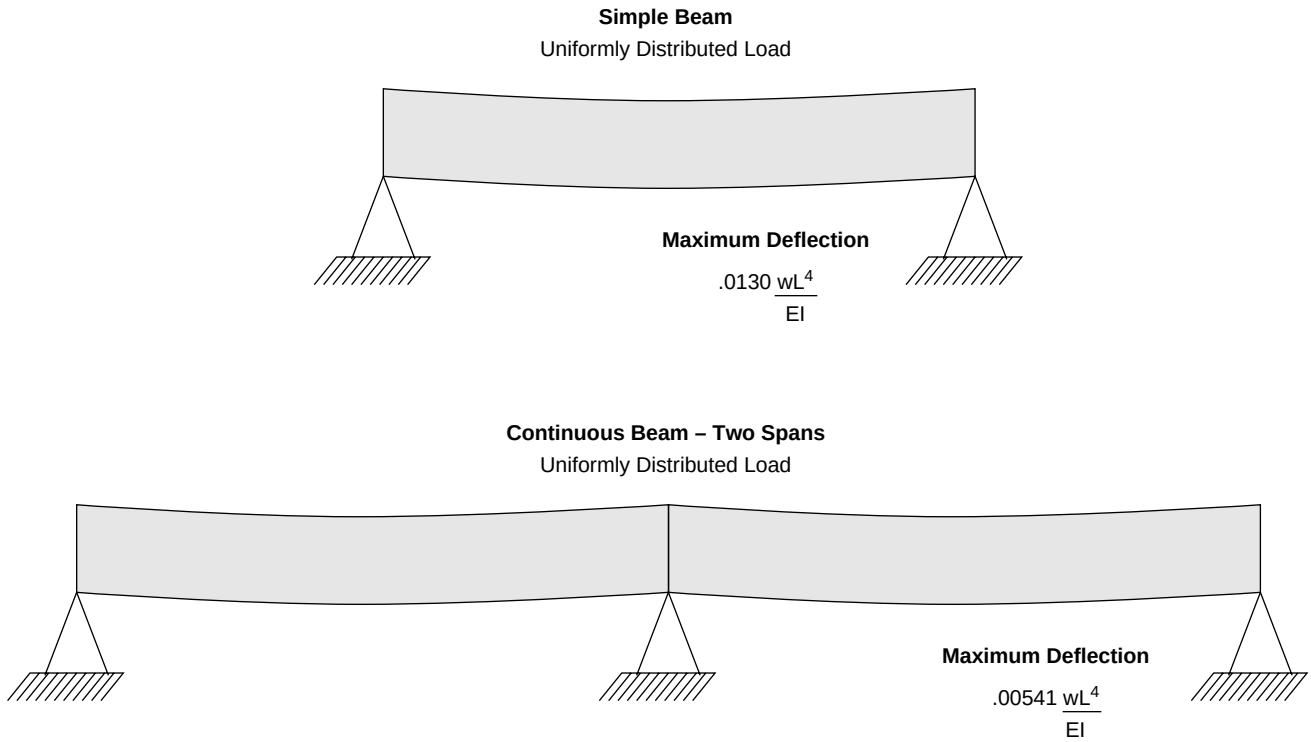

Figure 1.3

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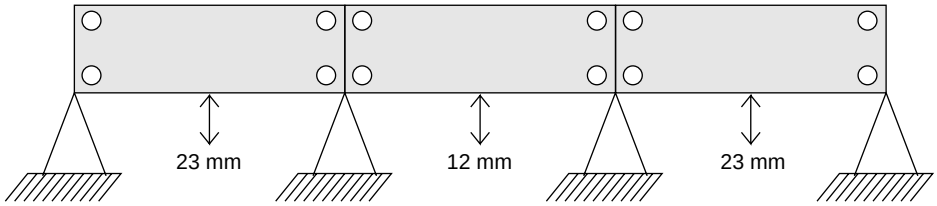
Since different bending moments are created in each span, there is no simple factor to approximate deflection as the number of spans increases. It is possible to calculate these deflections at any given point by using second integration of the basic differential equation for beams. Testing shows that the center span of a three-tray continuous beam can deflect less than 10% of its simple beam deflection.

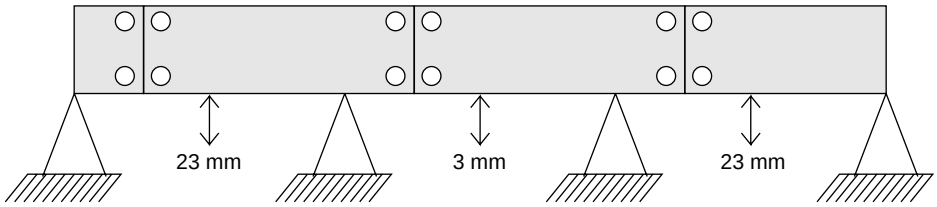
LOCATION OF COUPLINGS

Couplers at Supports



Typical Deflection at Rated Load

Couplers at ¼ Span From Supports



Typical Deflection at Rated Load

Figure 1.4

Location of Couplers. (See Figure 1.4.) The location of the coupler dramatically affects the deflection of a cable tray system under equal loading conditions. Testing indicates that the maximum deflection of the center span of a three-span cable tray run can increase four times if the couplers are moved from one-quarter span to above the supports. This can be a major concern for designers considering modular systems for tray and pipe racks.

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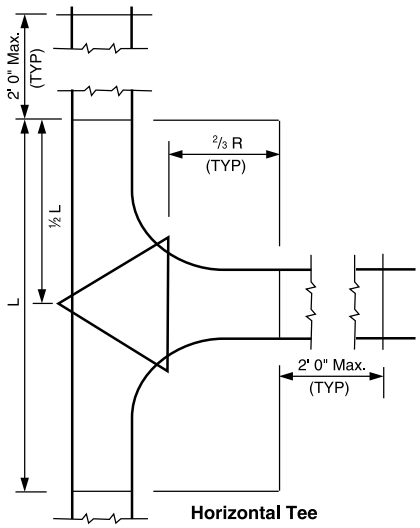
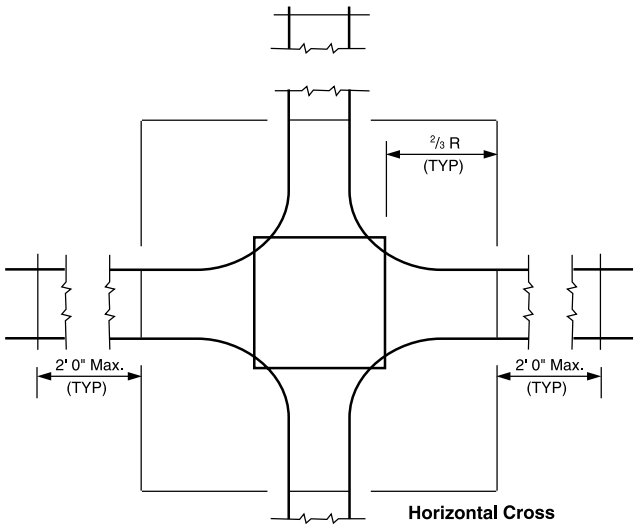
T&B® Cable Tray

Technical Information – Cable Tray Selection Process

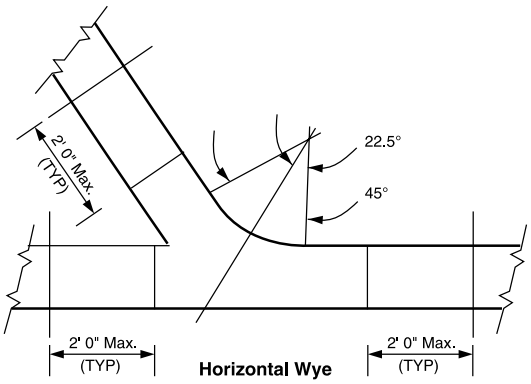
SUPPORT LOCATIONS FOR FITTINGS



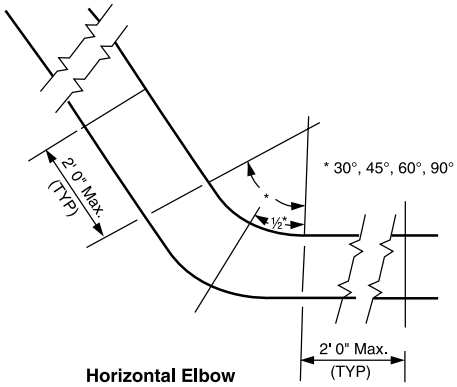
Horizontal Tee



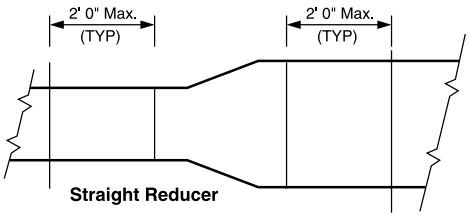
Horizontal Cross



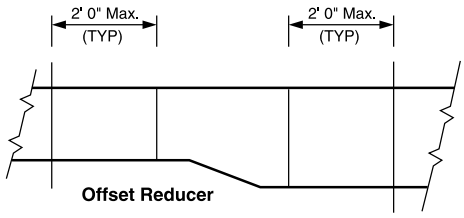
Horizontal Wye



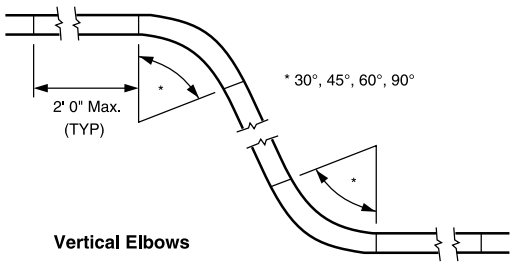
Horizontal Elbow



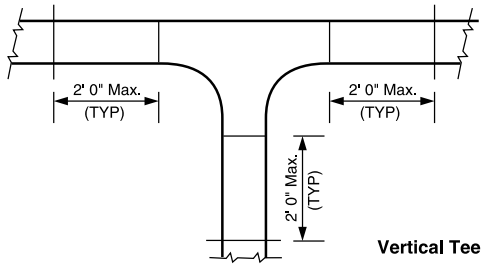
Straight Reducer



Offset Reducer



Vertical Elbows



Vertical Tee

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T&B® Cable Tray

Technical Information – Materials

Materials

Most cable tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc, PVC or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost.

Aluminum

Cable trays fabricated of extruded aluminum are often used for their high strength-to-weight ratio, superior resistance to certain corrosive environments, and ease of installation. They also offer the advantages of being light weight (approximately 50% that of a steel tray) and maintenance free, and since aluminum cable trays are non-magnetic, electrical losses are reduced to a minimum.

T&B cable tray products are formed from the 6063 series alloys which by design are copper free alloys for marine applications. These alloys contain silicon and magnesium in appropriate proportions to form magnesium silicide, allowing them to be heat treated. These magnesium silicon alloys possess good formability and structural properties, as well as excellent corrosion resistance.

The unusual resistance to corrosion, including weathering, exhibited by aluminum is due to the self-healing aluminum oxide film that protects the surface. Aluminum's resistance to chemicals in the application environment should be tested before installation.

Steel

T&B steel cable trays are fabricated from structural quality steels using a continuous roll-formed process. Forming and extrusions increase the mechanical strength.

The main benefits of steel cable tray are its high strength and low cost. Disadvantages include high weight, low electrical conductivity and relatively poor corrosion resistance.

The rate of corrosion will vary depending on many factors such as the environment, coating or protection applied and the composition of the steel. T&B offers finishes and coatings to improve the corrosion resistance of steel. These include pre-galvanized, hot dip galvanized (after fabrication), PVC (polyvinyl chloride), epoxy and special paints.

Stainless Steel

Stainless steel offers high yield strength and high creep strength, at high ambient temperatures.

T&B stainless steel cable tray is roll-formed from AISI Type 304 or AISI Type 316 stainless steel. Both are not magnetic and possess high strength when cold rolled or formed.

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T&B® Cable Tray

Technical Information – Materials

Type 304 is resistant to dyestuffs, organic chemicals, and inorganic chemicals at elevated temperatures. Higher levels of chromium and nickel and a reduced level of carbon serve to increase corrosion resistance and facilitate welding. Type 316 includes molybdenum to increase high temperature strength and improve corrosion resistance, especially to chloride and sulfuric acid. Carbon content is reduced to facilitate welding.

FINISHES

Galvanized Coatings

The most widely used coating for cable tray is galvanizing. It is cost-effective, protects against a wide variety of environmental chemicals, and is self-healing if an area becomes unprotected through cuts or scratches.

Steel is coated with zinc through electrolysis by dipping steel into a bath of zinc salts. A combination of carbonates, hydroxides and zinc oxides forms a protective film to protect the zinc itself. Resistance to corrosion is directly related to the thickness of the coating and the harshness of the environment. A maximum of .5 mils of zinc can be metallically bonded to steel.

Pre-Galvanized

Pre-galvanized, also known as mill-galvanized or hot dip mill-galvanized, is produced in a rolling mill by passing steel coils through molten zinc. These coils are then slit to size and fabricated.

Areas not normally coated during fabrication, such as cuts and welds, are protected by neighboring zinc, which works as a sacrificial anode. During welding, a small area directly affected by heat is also left bare, but the same self-healing process occurs.

G90 requires a coating of .90 ounces of zinc per square foot of steel, or .32 ounces per square foot on each side of the metal sheet. In accordance with A653/A653M-98, pre-galvanized steel is not generally recommended for outdoor use or in industrial environments.

Hot-Dip Galvanized

After the steel cable tray has been manufactured and assembled, the entire tray is immersed in a bath of molten zinc, resulting in a coating of all surfaces, as well as all edges, holes and welds.

Coating thickness is determined by the length of time each part is immersed in the bath and the speed of removal. Hot dip galvanizing after fabrication creates a much thicker coating than the pre-galvanized process, a minimum of 3.0 ounces per square foot of steel or 1.50 ounces per square foot on each side of the sheet.

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The process is recommended for cable tray used in most outdoor environments and many harsh industrial environment applications.

PVC Coating

T&B offers steel or aluminum cable trays with a PVC (polyvinyl chloride) coating, especially designed for special corrosion environments. PVC coatings provide effective protection against most alkalies, edible oils, inorganic acids and mineral acids up to 150° F, but lack resistance to many solvents. PVC was applied to steel cable tray well before the availability of aluminum and stainless steel materials. Therefore, PVC had become less prevalent.

The process requires that all parts be thoroughly cleaned, primed with vinyl, and preheated before immersion in a fluidized bath of vinyl plastic powder. The powder melts onto the heated surface and forms a smooth, uniform coat, with the thickness determined by the temperature of the metal and how long it is immersed.

Unlike zinc coatings, the thickness of the PVC coating does not determine how long it will last. That is a function of the chemistry of polyvinyl chloride. T&B's PVC-coated cable trays have a coating of 15 mils (plus or minus 5 mils).

A disadvantage of PVC coating is that a lack of integrity of any size can severely reduce its corrosion resistance. Scanning with a high-frequency volt spark is recommended and all cuts, pinholes or any other forms of discontinuity must be repaired with a liquid PVC patch.

Other Coatings

Enamel and epoxy coatings are available on request.

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T&B® Cable Tray

Technical Information – Corrosion

CORROSION

Corrosion of metal occurs naturally when the metal is exposed to chemical or electrochemical attack. The atoms on the exposed surface of the metal come into contact with a substance, leading to deterioration of the metal through a chemical or electrochemical reaction. The corroding medium can be a liquid, gas or solid.

Although all metals are susceptible to corrosion, they corrode in different ways and at various speeds. Pure aluminum, bronze, brass, most stainless steels and zinc corrode relatively slowly, but some aluminum alloys, structural grades of iron and steel and the 400 series of stainless steels corrode quickly unless protected.

Various types of metal corrosion are categorized by its appearance or the method of acceleration:

- ***Chemical corrosion*** occurs through dissolution of the metal by reaction with a corrosive medium.
- ***Electrochemical corrosion*** involves chemical dissolution.
- ***Galvanic corrosion*** is accelerated by a difference in potential between metals that are in contact.
- ***Pitting corrosion*** is accelerated by a difference in the concentration of an ion or another dissolved substance.
- ***Crevice corrosion*** is accelerated by oxygen concentration or ion cell formation.
- ***Erosion corrosion*** is accelerated by a flow of liquid or gas.
- ***Intergranular corrosion*** occurs at grain (or crystal) boundaries.

Electrochemical Corrosion

Electrochemical corrosion is caused by an electrical current flow between two dissimilar metals, or if a difference of potential exists, between two areas of the same metal surface.

The energy flow occurs only in the presence of an electrolyte, a moist conductor that contains ions, which carry an electric charge. Solutions of acids, alkalies, and salts contain ions, making water—especially salt water—an excellent electrolyte.

COMMON TYPES OF CORROSION

Galvanic Corrosion

Galvanic corrosion results from the electrochemical reaction that occurs in the presence of an electrolyte when two dissimilar metals are in contact. The strength of the reaction—and the extent of the corrosion—depend on a number of factors, including the conductivity of the electrolyte and potential difference of the metals.

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T&B® Cable Tray

Technical Information – Corrosion

The metal with less resistance becomes anodic and more subject to corrosion, while the more resistant becomes cathodic.

The Galvanic Series Table, developed through laboratory tests on industrial metal alloys in sea water (a powerful electrolyte), list metals according to their relative resistance to galvanic corrosion. Those less resistant to galvanic corrosion (anodic) are at the top, and those more resistant (cathodic) are at the bottom.

The metals grouped together are subject to only slight galvanic effect when in contact, and metals at the top will suffer galvanic corrosion when in contact with metals at the bottom (in the presence of an electrolyte). The farther apart two metals are on the table, the greater the potential corrosion.

GALVANIC SERIES TABLE

Anodic End

Magnesium
Magnesium alloys

Zinc
Galvanized steel
Naval brass (C46400)
Aluminum 5052H
Aluminum 3004
Aluminum 3003
Aluminum 1100
Aluminum 6053
Alclad aluminum alloys
Aluminum bronze (C61400)
Cadmium
Copper (C11000)
Aluminum 2017
Aluminum 2024

Low-carbon steel
Wrought iron
Cast iron
Monel
Ni-resist
Type 304 stainless steel (passive)
Type 410 stainless steel (passive)
Type 316 stainless steel (active)
50Pb-50Sn solder
Silver

Type 304 stainless steel (active)
Type 316 stainless steel (active)

Lead
Tin

Muntz metal (C28000)
Manganese bronze (C67500)

Nickel (active)
Inconel (active)

Cartridge brass (C26000)
Admiralty metal (C44300)

Red brass (C23000)

Silicon bronze (C 65100)
Copper nickel, 30% (C71500)

Nickel (passive)
Inconel (passive)

Gold

Platinum

Cathodic End

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T&B® Cable Tray

Technical Information – Corrosion

Pitting

Pitting corrosion is localized and is identified by a cavity with a depth equal to or greater than the cavity's surface diameter. Pits may have different sizes and depths and most often appear randomly distributed. Aluminum and stainless steels in chloride environments are especially susceptible to pitting.

Pitting begins when surface defects, foreign particles or other variations in the metal lead to fixation of anodic (corroded) and cathodic (protected) sites on the metal surface. Acidic metal chlorides, which form and accumulate in the pit as a result of anodes attracting chloride ions, accelerate the pitting process over time. The nature of pitting often makes it difficult to estimate the amount of damage.

Crevice Corrosion

Crevice corrosion is a specialized form of pitting that particularly attacks metals or alloys protected by oxide films or passive layers. It results from a relative lack of oxygen in a crevice, with the metal in the crevice becoming anodic to the metal outside. For the crevice to corrode, it must be large enough to admit the electrolyte, but small enough to suffer oxygen depletion.

Erosion Corrosion

While erosion is a purely mechanical process, erosion corrosion combines mechanical erosion with chemical or electrochemical reaction. The process is accelerated by the generally rapid flow of liquid or gas over an eroded metal surface, removing dissolved ions and solid particles. As a result, the metal surface develops grooves, gullies, waves, rounded holes and valleys.

Erosion corrosion can damage most metals, especially soft ones like aluminum that are susceptible to mechanical wear, and those that depend for protection on a passive surface film, which can be eroded. Resulting damage can also be enhanced by particles or gas bubbles in a suspended state.

Intergranular Corrosion

Intergranular corrosion occurs between the crystals (or grains) that formed when the metal solidified. The composition of the areas between the crystals differs from that of the crystals themselves, and these boundary areas can become subject to intergranular corrosion. Weld areas of austenitic stainless steels are often affected by this form of corrosion, and the heat-treatable aluminum alloys are also susceptible.

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T&B® Cable Tray

Technical Information – Types of Corrosion

CORROSION RESISTANCE GUIDE

The following table has been compiled as a guide for selecting appropriate cable trays for various industrial environments. The information can only be used as a guide because corrosion processes are dictated by the unique circumstances of any particular assembly.

Corrosion is significantly effected by trace impurities which, at times, can become concentrated through wet/dry cycles in locations that are prone to condensation and evaporation. It is not uncommon to find aggressive mists created from contaminant species, notably from sulfur or halogen sources.

Temperature greatly influences corrosion, sometimes increasing the rate of metal loss, [a rule-of- thumb guide is that a 30°C change in temperature results in a 10X change in corrosion rate]. Sometimes corrosion attack slows down at higher temperatures because oxygen levels in aqueous solutions are lowered as temperatures increase. If an environment completely dries out then there can be no corrosion.

Stress-associated corrosion might occur when assemblies are poorly installed and/or fabricated, e.g., on-site welding or mechanical fastening. Premature failure can result from: *corrosion fatigue*, which can occur in any environment; *stress corrosion cracking,* which occurs in the presence of a specific chemical when the metal is under a tensile stress, which may be residual or applied, (e.g., from poor fabrication or welding); fretting, where two adjacent surfaces (under load) are subjected to an oscillatory motion across the mating surfaces.

Design - good design should minimize the risk of stress concentrations within a structure. Examples include sharp profiles, abrupt section changes, and threaded screws. These measures are particularly important for metals that are prone to stress corrosion cracking in specific media.

Design plays a significant role in exacerbating corrosion. Non-draining locations create liquid traps; local metal-to-metal (or metal-to-non-metal) contact points (e.g., mechanical assemblies (bolts) with washers or spacers), permit *crevice corrosion* and/or *galvanic corrosion* to occur. Areas that are poorly maintained, (e.g., surfaces are not regularly (or properly) washed and stubborn deposits remain on the metal surface), are particularly prone to localized corrosion damage due to different levels of oxygen under and adjacent to the location in question (differential aeration). Resulting damage from these situations is in the form of small holes (pits). In each of the examples just quoted there is a restricted supply of oxygen. Thus, metals (e.g., aluminum, stainless steels, zinc) that rely on oxygen to form protective corrosion films (oxides, hydroxides, carbonates, etc.,) may be prone to localized *pitting* and/or *crevice corrosion.*

A further example of localized corrosion occurs when dissimilar metals contact each other in the presence of a corrodent, i.e., *galvanic corrosion.* Each metal will corrode but the one that is most active [anode] can be more corroded especially when there is a large surrounding area of the less active [cathodic] metal. It is wise to avoid small anodic areas. Some examples include: steel bolts [small area of anodic metal] in stainless steel plate, [large area of cathodic metal]; steel bolts in copper plate - the steel corrodes). There can be

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T&B® Cable Tray

Technical Information – Types of Corrosion

environmental influences, for example a fluid that contains active metallic species, for example copper ion contact with aluminum (copper picked up from aqueous solutions conveyed in copper pipe) - the aluminum corrodes. A further dramatic example is provided when trace quantities of mercury contact aluminum - the aluminum corrodes very rapidly. These are examples of *deposit corrosion.*

KEY TO SYMBOLS IN TABLE

The following symbols have been used throughout the TABLE in order to provide an indication about the suitability of a potential candidate material for a specific chemical environment.

NOTE: These tables should be regarded only as GUIDES to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc.. Further details have been given elsewhere.

SYMBOLS:

++	first choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch).
+	good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy.
-	can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply.
X	not recommended.
(-)	brackets indicate probable limitations, e.g., at higher temperatures, [symbol “T”]; at higher concentrations, [symbol “C”]; due to pitting, [symbol “P”]; due to local grain boundary attack in the metal - intergranular corrosion, [symbol “I”]; or, due to stress corrosion cracking, [symbol “S”].
nd	no available data.

Wherever there is an uncertainty about choice you are advised to undertake site and/or laboratory tests in order to determine the most suitable material for the application. Inquiries can also be made through THOMAS & BETTS - Technical staff.

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Technical Information – Types of Corrosion

CHEMICAL SPECIES	Aluminum	Zinc/steel	304SS	316SS
Acetaldehyde	++	+	++	++
Acetic acid - aerated	(+)[T,C]	X	(++)[T]	(++)[T]
Acetic acid - not aerated	(+)[T,C]	X	(+)[P]	(++)[T]
Acetone	++	++	++	++
Acetylene	++	nd	++	++
Allyl alcohol	+	nd	++	++
Aluminum chloride - dry	+	nd	(+)[T,P]	(+)[T,P]
Aluminum chloride - wet	X	X	X	(-)[P]
Aluminum sulfate - satd.	X	nd	(+)[P]	+
Ammonia - anhydrous	++	++	+	++
Ammonia - gas	-	+	(++)[T]	(+)[T]
Ammonium acetate	+	nd	+	+
Ammonium bicarbonate	-	nd	+	(+)[T]
Ammonium carbonate - satd.	+	X	+	+
Ammonium chloride - 28%	X	X	(-)[P,S]	(+)[P,S]
Ammonium chloride - 50%	X	X	X	X
Ammonium hydroxide	+	+	(++)[C]	(++)[C]
Ammonium nitrate	+	X	(++)[S]	(++)[S]
Ammonium phosphate - 40%	X	nd	++	+
Ammonium sulfate - to 30%	X	-	(-)[I,S]	+
Amyl acetate	++	++	++	++
Asphalt	++	+	(+)[T]	+
Beer	++	X	++	++
Benzene (benzol)	++	+	(+)[P]	(+)[P]
Benzoic acid	+	nd	+	+
Benzol - see benzene				
Boric acid (boracic acid)	++	nd	(++)[T,P]	(++)[T,P]
Bromine - wet	X	X	X	X
Butadiene (butylene)	+	+	+	+
Butyl alcohol (butanol)	++	++	++	++
Butyric acid	+	X	(+)[T]	+
Cadmium sulfate	+	nd	+	++
Calcium carbonate	-	nd	++	+
Calcium chloride - satd.	+	X	(+)[P,S]	(+)[S]
Calcium hydroxide - satd.	X	nd	+	+
Calcium hypochlorite - satd.	X	X	X	(-)[P]
Carbon dioxide - wet	++	+	+	+
Carbon disulfide (bisulfide)	++	+	+	++
Carbon tetrachloride	X	+	(++)[P,S]	(++)[P,S]
Carbolic acid - see phenol				

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T&B® Cable Tray

Technical Information – Types of Corrosion

CHEMICAL SPECIES	Aluminum	Zinc/steel	304SS	316SS
Carbonic acid - see carbon dioxide				
Caustic potash - see potassium hydroxide				
Caustic soda - see sodium hydroxide				
Chlorine gas - wet	X	++	X	(-)[P,S]
Chloroform	(+)[dry]	+	(+)[T,S]	(+)[T,S]
Chromic acid	+	nd	(+)[P]	(+)[P]
Citric acid - dilute	(+)[T,C]	X	(+)[P]	(++)[P]
Copper chloride	X	X	(-)[P,S]	(-)[P]
Copper nitrate	X	nd	++	++
Copper sulfate	X	-	(+)[I]	+
Cresol	+	+	++	+
Crude oil	++	++	++	++
Diethylamine	+	++	+	++
Dimethyl ketone - see acetone				
Ethyl acetate	(++)[dry]	++	+	+
Ethyl alcohol (ethanol)	++	++	+	++
Ethylene dichloride	(-)[dry]	++	(+)[P,S]	(+)[P,S]
Ethylene glycol (glycol)	++	++	+	++
Ferric chloride	X	X	X	X
Ferric nitrate - 10%	X	nd	+	+
Ferrous sulfate	+	nd	+	(+)[P]
Formaldehyde (methanal)	(+)[P]	++	(++)[T]	(++)[T,C]
Fluorine gas - moist	X	X	X	X
Formalin - see formaldehyde				
Formic acid (methanoic acid) - 10%	(+)[T]	X	(+)[T,C,I]	(+)[P,C]
Furfural (furfuraldehyde)	+	nd	+	+
Furol - see furfural				
Gelatin	++	+	++	++
Glycerine (glycerol)	++	++	++	++
Hexamine - 80%	++	nd	++	++
Hydrobromic acid	X	X	X	X
Hydrochloric acid (muriatic acid)	X	X	X	X
Hydrocyanic acid - dilute	+	nd	+	+
Hydrocyanic acid - conc	X	nd	+	+
Hydrofluoric acid	X	X	X	X
Hydrogen chloride gas - dry	X	X	(++)[S]	(++)[S]
Hydrogen chloride gas - wet	X	X	(+)[T]	+
Hydrogen fluoride	(-)[T]	nd	+	+
Hydrogen peroxide - to 40%	++	nd	+	+
Hydrogen sulfide - wet	(+)[P]	nd	(-)[P,S]	(+)[P,S]

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T&B® Cable Tray

Technical Information – Types of Corrosion

CHEMICAL SPECIES	Aluminum	Zinc/steel	304SS	316SS
Hypo - see sodium thiosulfate				
Hypochlorous acid	X	X	X	X
Iodine solution - satd.	X	X	X	X
Lactic acid	(+)[T]	nd	(+)[P,I]	(+)[P,I]
Latex	++	-	++	++
Lithium chloride - to 30%	X	nd	+	++
Linseed oil	+	nd	++	++
Magnesium chloride - 50%	X	X	(-)[P,S]	(+)[P,S]
Magnesium hydroxide	+	nd	++	++
Magnesium sulfate	+	X	+	+
Maleic acid (maleinic acid) - 20%	+	nd	(+)[T]	+
Methyl alcohol (methanol)	++	++	++	++
Methyl ethyl ketone	+	++	(+)[T]	+
Milk	++	X	++	++
Molasses	+	nd	++	++
Naptha	+	+	+	+
Natural fats	++	++	++	++
Nickel chloride	X	nd	(+)[P,S]	(+)[P,S]
Nickel sulfate	X	nd	+	+
Nitric acid	X	X	++	(++)[I]
Oleic acid	(++)[T]	nd	(++)[T,P]	++
Oxalic acid - dilute	-	nd	X	+
Oxalic acid - saturated	(+)T	X	X	X
Paraformaldehyde - to 30%	+	nd	++	++
Perchloroethylene	+	X	(++)[P]	(++)[P]
Phenol (carbolic acid)	+	+	(++)[P]	++
Phosphoric acid - dilute	X	X	(++)[T]	++
Phosphoric acid - 50%	X	X	(++)[I]	(++)[I]
Picric acid	++	nd	+	+
Potassium bicarbonate - 30%	X	nd	++	++
Potassium carbonate	X	nd	++	++
Potassium chloride - to 25%	X	X	(++)[P,S]	(++)[P]
Potassium dichromate - 30%	(++)[T]	X	++	++
Potassium hydroxide	X	nd	(+)[S]	(+)[S]
Potassium nitrate	++	++	+	+
Potassium sulfate	++	++	++	++
Propionic acid (propanoic acid)	(+)[T]	X	(+)[T]	(+)[T]
Propyl alcohol (propane)	++	++	+	++
Prussic acid - see hydrocyanic acid				
Pyridine	+	nd	+	++

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T&B® Cable Tray

Technical Information – Types of Corrosion

CHEMICAL SPECIES	Aluminum	Zinc/steel	304SS	316SS
Soaps	+	-	+	+
Sodium bicarbonate - 20%	+	nd	++	++
Sodium bisulfate	X	X	(+)[P,I]	(+)[T]
Sodium bisulfite	X	X	(+)[T,S]	+
Sodium chloride - to 30%	X	X	(+)[P,S]	(+)[P,S]
Sodium cyanide	X	nd	(+)[T,P]	(+)[T]
Sodium hydroxide - 10-30%	X	X	(+)[S]	(+)[S]
Sodium hydroxide - 50%	X	X	(+)[S]	(++)[S]
Sodium hydroxide - conc	X	X	+	++
Sodium hypochlorite - conc	X	+	(-)[P,S]	(-)[P,S]
Sodium nitrate	++	X	++	++
Sodium peroxide - 10%	+	nd	+	+
Sodium silicate	++	nd	+	++
Sodium sulfate	(++)[30%]	X	(++)[S]	++
Sodium sulfide - to 50%	X	nd	(+)[P]	(+)[T]
Sodium thiosulfate	+	nd	+	++
Steam	(+)[P]	++	+	++
Stearic acid	+	nd	++	++
Sorbital (hexahydric alcohol)	++	+	++	++
Sulfur dioxide - dry	+	+	(+)[I]	++
Sulfur dioxide - wet	X	X	X	(+)[T]
Sulfuric acid - to 80%	X	X	X	X
Sulfuric acid - 80-90%	X	X	(-)[I]	(-)[I]
Sulfuric acid - 98%	X	X	(+)[I]	(+)[I]
Tannic acid (tannin)	X	X	+	+
Tartaric acid - to 50%	(+)[T]	nd	++	++
Toluene (Toluol; methyl benzene)	++	++	++	++
Trichloroethylene	(++)[T]	+	(+)[P]	(+)[P]
Turpentine	+	++	++	++
Water - acid, mine	X	-	(++)[P]	(++)[P]
Water - potable	+	+	++	++
Water - sea	+	+	+	++
Xylene	++	nd	++	++
Zinc chloride - dilute	++	nd	(++)[P,S]	(++)[P,S]

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T&B® Cable Tray

Technical Information – Thermal Expansion and Contraction

THERMAL EXPANSION AND CONTRACTION

A cable tray system may be affected by thermal expansion and contraction, which must be taken into account during installation.

To determine the number of expansion splice plates you need, decide the length of the straight cable tray runs and the total difference between the minimum winter and maximum summer temperatures.

To function properly, expansion splice plates require accurate gap settings between trays. To find the gap (see Table 1):

- Enter the lowest metal temperature on the minimum temperature line.
- Enter the highest metal temperature on the maximum temperature line.
- Draw a line between the two points.
- Enter the metal temperature at the time of installation.

The support nearest the midpoint between expansion splice plates should be anchored, allowing the tray longitudinal movement in both directions. All other support location should be secured by expansion guides. (See Table 2.)

When a cable tray system is used as an equipment grounding conductor, it is important to use bonding jumpers at all expansion connections to keep the electrical circuit continuous. T&B offers both 600 amp and 2000 amp bonding jumpers.

PLOT YOUR GAP SETTING

a. Locate the lowest metal temperature on low temperature line.

b. Locate the highest metal temperature on high temperature line.

c. Connect these two points.

d. Locate installation temperature and plot to high/low line. Drop plot to gap setting.

GAP SETTING OF EXPANSION SPLICE PLATE
(1" Gap Maximum)

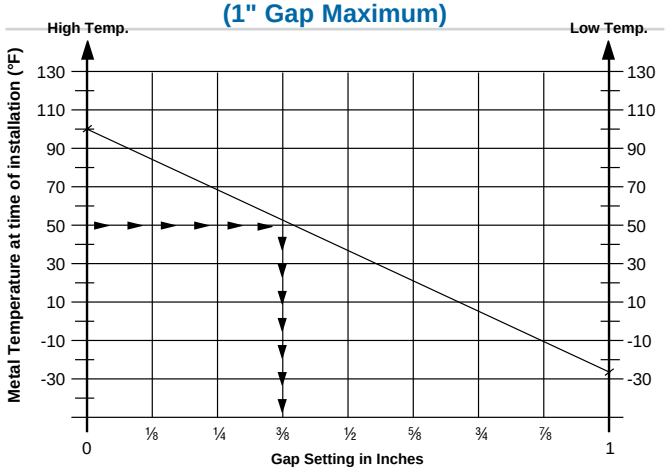

Table 1

MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS (For 1" Movement)

Temperature Differential (°F)	Steel (Feet)	Aluminum (Feet)
25	512	260
50	256	130
75	171	87
100	128	65
125	102	52
150	85	43
175	73	37

Note: Every pair of expansion splice plates requires two bonding jumpers for grounding continuity.

TYPICAL CABLE TRAY INSTALLATION

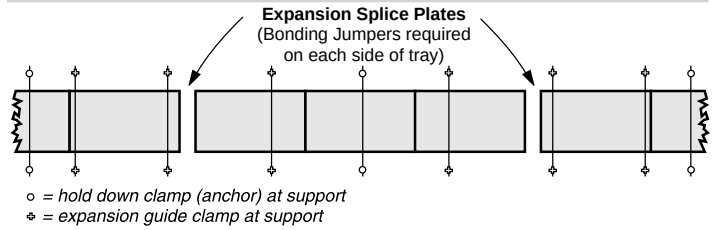
Expansion Splice Plates
(Bonding Jumpers required on each side of tray)
o = hold down clamp (anchor) at support
= expansion guide clamp at support

Table 2

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T&B® Cable Tray

Technical Information – Electrical Design

ELECTRICAL DESIGN

Sizing Cable Tray

The correct size cable tray for your application depends on the system voltage and the selected tray design.

To find the size you need, select Sizing Chart based on your application.

SIZING CHART A
LADDER / VENTILATED CABLE TROUGH

≤ 2000 Volts

Level One:	Multiconductor	4/0 or larger
Level Two:	Multiconductor	3/0 or smaller
Level Three:	Multiconductor	4/0 or larger with smaller cables
Level Four:	Multiconductor	Control / Lighting / Signal

SIZING CHART B
SOLID CABLE TROUGH

≤ 2000 Volts

Level One:	Multiconductor	4/0 or larger
Level Two:	Multiconductor	3/0 or smaller
Level Three:	Multiconductor	4/0 or larger with smaller cables
Level Four:	Multiconductor	Control / Lighting / Signal

Sizing Cable Tray 2001 Volts or over refer to NEC 318-12.

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T&B® Cable Tray

Technical Information – Electrical Design

Ventilated Channel Trays

Where ventilated channel cable trays contain **multiconductor cables of any type,** the combined cross sectional area of all cables shall not exceed:

3" wide channel	1.3 sq. inches (839 sq. mm)
4" wide channel	2.5 sq. inches (1613 sq. mm)
6" wide channel	3.8 sq. inches (2452 sq. mm)

Where only **one multiconductor cable** is installed in a ventilated channel tray the cross sectional area of the cable tray shall not exceed:

3" wide channel	2.3 sq. inches (1484 sq. mm)
4" wide channel	4.5 sq. inches (2903 sq. mm)
6" wide channel	7.0 sq. inches (2516 sq. mm)

SIZING CHART A – LEVEL ONE
LADDER / VENTILATED TROUGH

≤ 2000 Volts – Power, Lighting, Control and Signal / Multi-conductor 4/0 or larger NEC 318-9 (a)(1)

No. Cables	Cable Size	Diameter	Calculation		Width (in.)
10	1C#250	0.716	(10) (0.716)	=	7.16
4	4C#350	2.50	(4) (2.50)	=	10.00
4	1C#1000	1.330	(4) (1.330)	=	5.32
				minimum width	22.48
			* spare capacity allowance 20%		4.49
				design width	26.97

RECOMMEND: 30" wide Ladder or Ventilated.

Note: all cable must be installed in a single layer.
** Optional spare capacity to be determined by designer.*

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T&B® Cable Tray

Technical Information – Electrical Design

SIZING CHART A – LEVEL TWO
LADDER / VENTILATED TROUGH

≤ 2000 Volts – Power, Lighting, Control and Signal / Multi-conductor 3/0 or smaller NEC 318-9 (a)(2)

No. Cables	Cable Size	Cable Area	Calculation		Width (in.)
20	3C#1/0	1.27	(10) (1.27) ÷ .857	=	10.88
10	3C#3/0	1.79	(5) (1.79) ÷ .857	=	7.67
2	4C#8	0.49	(2) (0.49) ÷ .857	=	.84
5	4C#2/0	1.99	(5) (1.99) ÷ .857	=	8.53
				minimum width	27.92
			* spare capacity allowance 20%		5.58
				design width	33.50

RECOMMEND: 36" wide Ladder or Ventilated.

** Optional spare capacity to be determined by designer.*

SIZING CHART A – LEVEL THREE
LADDER / VENTILATED TROUGH

≤ 2000 Volts – Power, Lighting, Control and Signal / Multi-conductor 4/0 or larger with cables smaller than 4/0 NEC 318-9 (a)(3)

No. Cables	Cable Size	Diameter	Calculation		Width (in.)
3	4C#500	2.59	(3) (2.54) (1.2)	=	9.32
3	3C#4/0	1.68	(3) (1.68) (1.2)	=	6.05
4	3C#250	1.80	(2) (1.80) (1.2)	=	8.64
			4/0 and larger minimum width		24.01
		Cable Area			
3	4C#8	0.49	(3) (0.49) ÷ .857	=	1.26
2	3C#1/0	1.27	(2) (1.27) ÷ .857	=	2.18
2	3C#2/0	1.50	(2) (1.50) ÷ .857	=	2.57
			3/0 and smaller minimum width		6.01
				minimum tray width	30.02
			* spare capacity allowance 20%		6.00
				design width	36.02

RECOMMEND: 36" wide Ladder or Ventilated.

Note: 4/0 cable must be installed in a single layer.
** Optional spare capacity to be determined by designer.*

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T&B® Cable Tray

Technical Information – Electrical Design

SIZING CHART A – LEVEL FOUR
LADDER / VENTILATED TROUGH

≤ 2000 Volts – Control and/or Signal / Multi-conductor Cable **NEC 318-9 (b)**

No. Cables	Cable Size	Cable Area (in²)	Calculation		Required Area (in²)
80	12C#16	0.21	(2) (80) (0.21)	=	33.60
50	4C#12	0.14	(2) (50) (0.14)	=	14.00
27	4C#10	0.20	(2) (27) (0.20)	=	10.80
				Total Area Required	58.40
			Width Required = 58.40 ÷ (2) =		9.73
			* spare capacity allowance 20%		1.95
				design width	11.68

RECOMMEND: 12" wide Ladder or Ventilated.

(d) = Load depth of tray.
Calculations based on 6" deep tray.
** Optional spare capacity to be determined by designer.*

SIZING CHART B – LEVEL ONE
SOLID CABLE TROUGH

≤ 2000 Volts – Power, Control and Signal / Multi-conductor 4/0 or larger **NEC 318-9 (c)(1)**

No. Cables	Cable Size	Diameter	Calculation		Width (in.)
3	3C#4/0	1.68	(3 x 1.68 ÷ .90)	=	5.60
1	3C#350	2.04	(1 x 2.04 ÷ .90)	=	2.27
2	3C#500	2.32	(2 x 2.32 ÷ .90)	=	5.16
				minimum width	13.03
			* spare capacity allowance 20%		2.61
				design width	15.64

RECOMMEND: 18" wide Solid Cable Trough.

Note: all cable must be installed in a single layer.
** Optional spare capacity to be determined by designer.*

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T&B® Cable Tray

Technical Information – Electrical Design

SIZING CHART B – LEVEL TWO
SOLID CABLE TROUGH

≤ 2000 Volts – Power Control and Signal / Multi-conductor 3/0 or smaller NEC 318-9 (c)(2)

No. Cables	Cable Size	Area	Calculation		Width (in.)
5	3C#3/0	1.51	(5) (1.51) (1.09)	=	8.23
7	4C#1/0	1.46	(7) (1.46) (1.09)	=	11.14
9	4C#2	1.15	(9) (1.15) (1.09)	=	11.28
3	4C#8	.79	(3) (.79) (1.09)	=	2.58
				minimum width	33.23

RECOMMEND: 36" wide Solid Cable Trough.

Note: all cable must be installed in a single layer.
** Optional spare capacity to be determined by designer.*

SIZING CHART B – LEVEL THREE
SOLID CABLE TROUGH

≤ 2000 Volts – Power Control and Signal / Multi-conductor 4/0 or larger with cables smaller than 4/0 NEC 318-9 (c)(3)

No. Cables	Cable Size	Diameter	Calculation		Width (in.)
3	4C#4/0	1.85	(3 x 1.85)	=	5.55
1	3C#500	2.32	(1 x 2.32)	=	2.32
				total for 4/0 or larger	7.87
		+			
		Area			
5	4C#1/0	1.46	(5) (1.46) (1.09)+	=	2.96
3	4C#2	1.15	(3) (1.15) (1.09)+	=	3.76
5	3C#6	0.79	(5) (0.79) (1.09)+	=	4.31
				total for 3/0 or smaller	16.03
				minimum width	23.90
				* spare capacity allowance 20%	4.78
				design width	28.68

RECOMMEND: 30" wide Solid Cable Trough.

Note: 4/0 cable must be installed in a single layer.
** Optional spare capacity to be determined by designer.*

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T&B® Cable Tray

Technical Information – Electrical Design

SIZING CHART B – LEVEL FOUR
SOLID CABLE TROUGH

≤ 2000 Volts – Control and/or Signal / Multi-conductor NEC 318-9 (d)

No. Cables	Cable Size	Cable Area	Calculation		Required Area (in²)
35	4C#18	0.08	(35 x .08) ÷ .4	=	7.00
10	24C#18	0.36	(10 x .36) ÷ .4	=	9.00
21	7C#14	0.15	(21 x 0.15) ÷ .4	=	7.88
			Total Area Required		23.88
			Width Required = 23.88 ÷ (d) = 3.98		

RECOMMEND: 6" wide Solid Cable Trough.

(d) = Load depth of tray.
Calculations based on 6" deep tray
Sum of the cross sectional areas of cables at any cross section must not exceed 40% of the interior section of the tray.
** Optional spare capacity to be determined by designer.*

Derating due to Covers

NEC-1993 requires a reduction in the ampacity of installed cables if cable trays are continuously covered for more than six feet with solid unventilated covers.

- **If 2000 volts or less:**

Multiconductor Cables

Use 95% of Tables 310-16 and 310-18.

Single Conductor Cables

*For 600 kcmil and larger, use 70% of Tables 310-17 and 310-19.

*For 1/0 AWG through 500 kcmil use 60% of Tables 310-17 and 310-19.

- **If 2001 volts or more:**

Multiconductor Cables

Use 95% of Tables 310-75 and 310-76.

Single Conductor Cables

Use 70% of Tables 310-69 and 310-70.

See NEC for tables listed.

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T&B® Cable Tray

Technical Information – Electrical Design

Cross-Sectional Area

The cross-sectional area (in square inches) of a multiconductor cable can be found by multiplying the square of the overall outside diameter (OD), including any insulation and/or armor, by 0.7854:

Cross Sectional Area (sq. in.) = $(OD)^2$ x 0.7854

For diameters and cross-sectional areas of cables consult your cable supplier.

Multipliers

All tables use multipliers that are mathematical equivalents of Tables 318-9 and 318-10 of the NEC-1990.

An example can be found in column 1 of Table 318-9. The proportion of cable tray width (six inches) to allowable fill (seven square inches) is 0.857 for 3/0 and smaller multiconductor cables in ladder type trays. Therefore, the product of 0.857 and the cross-sectional area of cables is the tray width.

National Electrical Code

ARTICLE 318—CABLE TRAYS

318-3. Uses Permitted.

(a) Wiring Methods. The following shall be permitted to be installed in cable tray systems under the conditions described in their respective articles:

1. mineral-insulated, metal-sheathed cable (Article 330)
2. electrical nonmetallic tubing (Article 331)
3. armored cable (Article 333)
4. metal-clad cable (Article 334)
5. nonmetallic-sheathed cable (Article 336)
6. shielded, nonmetallic-sheathed cable (Article 337)
7. multiconductor service-entrance cable (Article 338)
8. multiconductor underground feeder and branch-circuit cable (Article 339)
9. power and control tray cable (Article 340)
10. power-limited tray cable (Sections 725-50, 725-51, and 725-53)
11. other factory-assembled, multiconductor control, signal, or power cables that are specifically approved for installation in cable trays
12. intermediate metal conduit (Article 345)
13. rigid metal conduit (Article 346)
14. rigid nonmetallic conduit (Article 347)
15. electrical metallic tubing (Article 346)
14. rigid nonmetallic conduit (Article 347)
15. electrical metallic tubing (Article 348)
16. flexible metallic tubing (Article 349)
17. flexible metallic conduit (Article 350)
18. liquidtight flexible metal conduit and liquidtight flexible nonmetal conduit (Article 351).

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T&B® Cable Tray

Technical Information – Structural Design

STRUCTURAL DESIGN

An installed cable tray system functions as a beam under a uniformly distributed load. The four basic beam configurations found in cable installations are simple, continuous, cantilever and fixed. Each is attached to the cable tray support in a different way.

Continuous Beam

Cable tray sections forming spans constitute a continuous beam configuration, the most common found in cable tray installations.

This configuration exhibits characteristics of the simple beam and the fixed beam. For example, with loads applied to all spans at the same time, the ends spans function like simple beams, while the counterbalancing loads on either side of a support function like a fixed beam.

As the number of spans increases, the continuous beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

Simple Beam

A straight section of cable tray supported at both ends but not fastened functions as a simple beam. Under a load, the tray will exhibit deflection. The load carrying capacity of a cable tray unit should be based on simple beam loading, since this type of loading occurs at run ends, offsets, etc., in any tray system.

The NEMA Load Test is a simple beam, uniformly distributed load test, used primarily because it is easy to test and represents the worst case beam condition compared to continuous or fixed configurations. The only criterion for NEMA acceptance is the ability to support 150% of the rated load.

Fixed Beam

Like the cantilever beam, a fixed beam applies more to the cable tray supports than the tray itself, because both ends of a fixed beam are firmly attached to the supports. The rigid attachment prevents movement and increases load bearing ability.

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T&B® Cable Tray

Technical Information – Structural Design

Cantilever Beam

A cantilever beam has more to do with the cable tray supports than the tray. Attaching one end of a beam to a support while the other end remains unsupported, as when wall mounting a bracket, creates a cantilever beam configuration. Obviously, with one end unsupported, the load rating of a cantilever beam is significantly less than that of a simple beam.

Splicing

Since the need for a continuous system requires that siderails be spliced, splice plates must be both strong and easy to install. T&B Aluminum Snap-In Splice Plate allows hands free installation of hardware for easier assembly.

If practical, splices in a continuous span cable tray system should be installed at points of minimum stress. According to NEMA Standard VE-1:

Unspliced straight sections should be used on all simple spans and on end spans of continuous span runs. Straight section lengths should be equal to or greater than the span length to ensure not more than one splice between supports.

Examples of splicing configurations are shown on page G43.

Design Loadings

Basic cable trays are designed on the basis of maximum allowable stress for a certain section and material. The allowable cable load varies with the span, type and width of the tray.

Basic Design Stresses

Allowable working stresses are the basis for all structural design. Since they must be of such magnitude as to assure the safety of the structure against failure, their selection is a matter of prime importance.

In practice, a basic design stress is determined by dividing the strength of the material by a factor of safety. The determining factors in establishing a set of basic design stresses for a structure are therefore the mechanical properties of the materials and suitable factors of safety.

Yield strength and ultimate strength are the mechanical properties most commonly considered to govern design. Values for these properties are readily obtainable. In determining the factor of safety, the designer must usually be guided by current practice—the “standard specifications” adopted by various technical societies and associations—and his or her own judgment and experience.

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T&B® Cable Tray

Technical Information – Structural Design

Factors of safety

Since a low value for the factor of safety results in economy of material, the designer seeks to establish a value as low as is practical, based on sound engineering judgment and experience. In making the determination, consideration of the following factors are highly important:

1. ***The accuracy with which the loads to represent service conditions are selected and assumed.*** If there is much doubt concerning these loads, the basic design stress will have to be more conservative than under conditions where the loads are known with considerable accuracy.

2. ***The accuracy with which the stresses in the members of a structure are calculated.*** Many approximations are used in structural design to estimate stress distribution. The choice of a factor of safety should be consistent with how accurate the analysis is. The more precise the method, the greater the allowable unit stress may be.

3. ***The significance of the structure being designed.*** The designer must keep in mind the relative importance of the structure and appraise the possibility of its failure causing significant property damage or loss of life. In this respect, the significance of the design will govern the choice of a factor of safety to a considerable extent.

The factors of safety used in designing most common types of structures are an outgrowth of the experience gained from many applications and tests—even failures. The trend in recent years has been to reduce the factors of safety in line with improved quality of material and increasing knowledge of stress distribution. Further reductions may be made in the future as greater accuracy in determinations becomes possible and practicable.

Application of design stresses to cable tray systems

A cable tray manufacturer must design standard products to accommodate the great variations encountered in applications. The factors affecting the selection of a suitable basic design stress necessarily result in more conservative stresses than might otherwise be required.

An engineer, who is in a position to determine specific stress requirements with a far greater degree of accuracy, may consider that the manufacturer's basic design stresses are too conservative for a particular project. Using individual experience and judgment, he or she would establish a new set of basic design stresses, selecting those safety factors that would result in a cable tray system best suited to meet the projected service conditions. With these stresses, the engineer can easily calculate an increase or decrease in the manufacturer's loading data, since the load is always in direct proportion to the stress.

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T&B® Cable Tray

Technical Information – Structural Design

The factors of safety used in determining maximum allowable stresses are as follows:

1. ***Aluminum Alloys***

a. For tension: the lower of ⅓ the minimum ultimate strength or ½ the minimum yield strength in tension.

b. For compression: the lower of ⅓ the minimum ultimate strength or ⅖ the minimum yield strength in compression.

c. For shear: the lower of ⅓ the minimum ultimate strength or ½ the minimum yield strength in shear.

2. ***For Hot Rolled Steels***

a. For tension: the lower of ½ the minimum ultimate strength or the minimum yield point in tension times .61.

b. For compression: the lower of ½ the minimum ultimate strength or the minimum yield point in compression times .61.

c. For shear: maximum stress not to exceed a value of ⅔ the basic design stress for tension.

Design Efficiency

A tray designed to perform its required function with the minimum weight (which facilitates installation) requires the material to be used in the most effective manner. The design requirements of siderails are different from those of rungs or ventilated bottom; fabricated tray allows the designer to use different shapes and thicknesses of metal to the best advantage.

The strength of the siderail and rungs is increased by the proper use of metal in the high strength heat-treated aluminum or continuously rolled cold-worked steel sections.

The corrugated bottom achieves high strength by cold working and rigidly supporting the vertical web-sections. Large flat areas with rounded edges are provided for cable support while exposing more than 50% of all cables to peripheral air ventilation.

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T&B® Cable Tray

Technical Information – Loading

LOADING

It is important to note that, per NEMA Standard VE1, cable tray is not designed to support personnel. The user should display appropriate warnings to prevent the use of cable tray as walkways.

Cable Loads

The cable load is the total weight, expressed in lbs./ft., of all the cables that will be placed in the cable tray.

Concentrated Loads

Any static weight applied between the siderails, such as tap boxes, cable drops and conduit attachments, represents a concentrated static load.

The following formula can be used to convert concentrated static loads to an equivalent, uniform load (We) in pounds per linear foot:

$$We = \frac{2 \times (\text{concentrated static load})}{\text{span length (ft.)}}$$

T&B's cable tray siderails, rungs and bottoms are designed to withstand a concentrated static load of 200 lbs.

Snow loads

Depending on the area, snowfall could indicate an additional design load. If snowfall is a factor and the tray has a solid cover in outdoor installations, a minimum load of 5 lbs. per square foot should be used.

Ice Loads

If a cable tray system is subject to icing conditions, usually only the top surface or cover and the windward side will be coated with any significant amount. It is generally assumed that ice weighs 57 lbs. per cubic foot.

Wind Loads

All outdoor cable tray installations should factor in wind loads, especially the pressure exerted on siderails of ladder trays. There have also been instances of strong winds lifting covers off trays, which can be minimized with the use of wraparound cover clamps.

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T&B® Cable Tray

Technical Information – Loading

Seismic Loads

It is now known that cable tray systems can withstand stronger earthquakes than previously thought. The tray itself and the support material are highly ductile, and the cables moving within the tray tend to dissipate energy. However, if you have specific seismic specifications for selected cable tray, please consult T&B to ensure your specifications are met.

LOAD DIAGRAMS FOR BEAMS

CANTILEVER BEAMS

Uniform Load

w PER UNIT OF LENGTH: TOTAL LOAD W

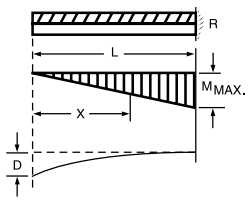
REACTION R = wL = W

MOMENT AT ANY POINT: $M = \frac{WX^2}{2} = \frac{WX^2}{2L}$

MAXIMUM MOMENT $M_{MAX} = \frac{wL^2}{2} = \frac{WL}{2}$

MAXIMUM DEFLECTION, $D = \frac{wL^4}{8EI} = \frac{WL^3}{8EI}$

MAXIMUM SHEAR, V = wL



Concentrated Load at Free End

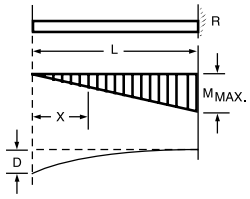
REACTION; R = P

MOMENT AT ANY POINT: M = Px

MAXIMUM MOMENT, M_{MAX} = PL

MAXIMUM DEFLECTION, $D = \frac{PL^3}{3EI}$

MAXIMUM SHEAR, V = P



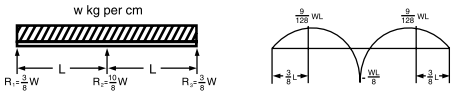
CONTINUOUS BEAMS

Two Span

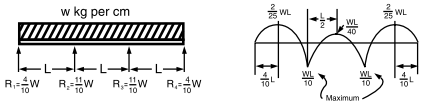
W = wL

R = Reaction, kg

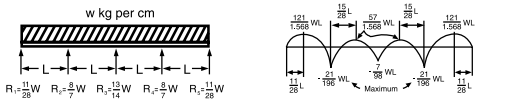
L = Span Length, cm R_1 = ⅜w



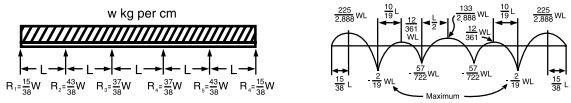
Three Span



Four Span



Five Span



SIMPLE BEAMS

Uniform Load

w PER UNIT OF LENGTH, TOTAL LOAD W

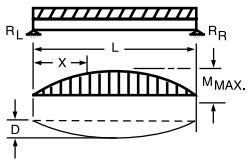
REACTIONS: $R_L = R_R = \frac{WL}{2} = \frac{W}{2}$

MOMENT AT ANY POINT: $M = \frac{wX(L-X)}{2} = \frac{WX(L-X)}{2L}$

MAXIMUM MOMENT, AT CENTRE $M_{MAX} = \frac{wL^2}{8} = \frac{WL}{8}$

MAXIMUM DEFLECTION: $D = \frac{5wL^4}{384EI} = \frac{5WL^3}{384EI}$

MAXIMUM SHEAR: $V = \frac{WL}{2}$



Concentrated Load at Center

REACTION $R_L = R_R = \frac{P}{2}$

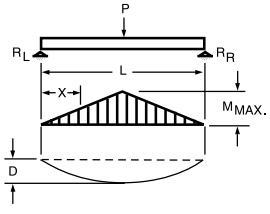
MOMENT AT ANY POINT: $X <= \frac{L}{2}$, $M = \frac{PX}{2}$

$X >= \frac{L}{2}$, $M = P\frac{(L-X)}{2}$

MAXIMUM MOMENT, AT CENTER, $M_{MAX} = \frac{PL}{4}$

MAXIMUM DEFLECTION, $D = \frac{PL^3}{384EI}$

MAXIMUM SHEAR, $V = \frac{P}{2}$



Concentrated Load at any Point

REACTION: $R_L = \frac{Pb}{L}$, $R_R = \frac{Pa}{L}$

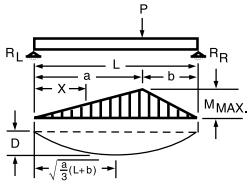
MOMENT AT ANY POINT: $X <= a, M = R_L X = \frac{PbX}{L}$

$X >= a, M = R_R (L-X) = Pa\frac{(L-X)}{L}$

MAXIMUM MOMENT, AT X = a, $M_{MAX} = \frac{Pab}{L}$

MAXIMUM DEFLECTION, $D = \frac{Pab(L+b)3a(L+b)}{27EIL}$

MAXIMUM SHEAR, $V = \frac{Pa}{L}$, WHEN a > b



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T&B® Cable Tray

Technical Information – Loading for Grades B, C, and D

250 • GENERAL LOADING REQUIREMENTS AND MAPS

(IEEE: Section 25 Loading for Grades B, C, and D)

A. General.

1. It is necessary to assume the loadings that may be expected to occur on a line because of wind and ice during all seasons of the year. These weather loadings shall be the values of loading resulting from the application of Rules 250B or 250C. Where both rules apply, the required loading shall be the one that, when combined with the appropriate overload capacity factors, has the greater effect on strength requirements.

2. Where construction or maintenance loads exceed those imposed by Rule 250A1, which may occur more frequently in light loading areas, the assumed loadings shall be increased accordingly.

3. It is recognized that loadings actually experienced in certain areas in each of the loading districts may be greater, or in some cases, may be less than those specified in these rules. In the absence of a detailed loading analysis, no reduction in the loadings specified therein shall be made without the approval of the administrative authority.

B. Combined Ice and Wind Loading.

Three general degrees of loading due to weather conditions are recognized and are designated as heavy, medium, and light loading. Figure 250-1 shows the districts in the states in which these loadings are normally applicable.

Note: The localities are classified in the different loading districts according to the relative simultaneous prevalence of wind velocity and thickness of ice that accumulates on wires. Light loading is for places where little, if any, ice accumulates on wires.

Table 250-1 shows the radial thickness of ice and the wind pressures to be used in calculating loading. Ice is assumed to weigh 57 lb/ft^2 (913 kg/m^3).

C. Extreme Wind Loading.

If any portion of a structure or its supported facilities exceeds 60 ft. (18m) above ground or water level, the applicable horizontal wind speed of Fig. 250-2, as determined by the linear interpolation, shall be used to calculate horizontal wind pressures. These pressures shall be applied to the entire structure and supported

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T&B® Cable Tray

Technical Information – Loading for Grades B, C, and D

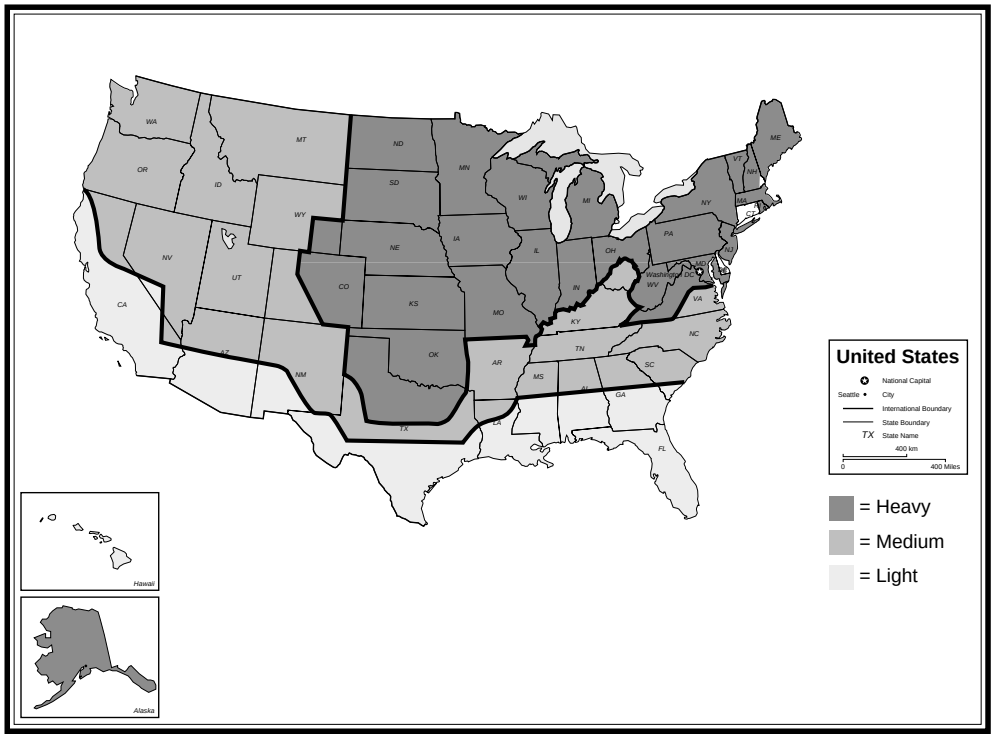

Fig. 250-1

General Loading Map of United States with respect to loading of overhead lines.

facilities without ice loading. The following formulas shall be used to calculate wind pressures on cylindrical surfaces:

pressure in lb/ft³ = 0.00256 (v m/h)2

pressure in pascals = 0.613 (v m/h)2

where m = meters
s = seconds

Table 250-2 lists the conversions of velocities to pressures for typical wind speeds as calculated by the formulas listed above.

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T&B® Cable Tray

Technical Information – Loading for Grades B, C, and D

If no portion of the structure or its supported facilities exceeds 60 ft. (18m) above ground or water level, the provisions of this rule are not required.

Fig. 250-2 is a wind map of the contiguous United States and Alaska reproduced from ASCE 7-88 [52]. For Hawaii and Puerto Rico, the basic wind speeds are 80mi/h and 95 mi/h, respectively.

Note: Wind velocity usually increases with height; therefore, experience may show that the wind pressures specified herein need to be further increased.

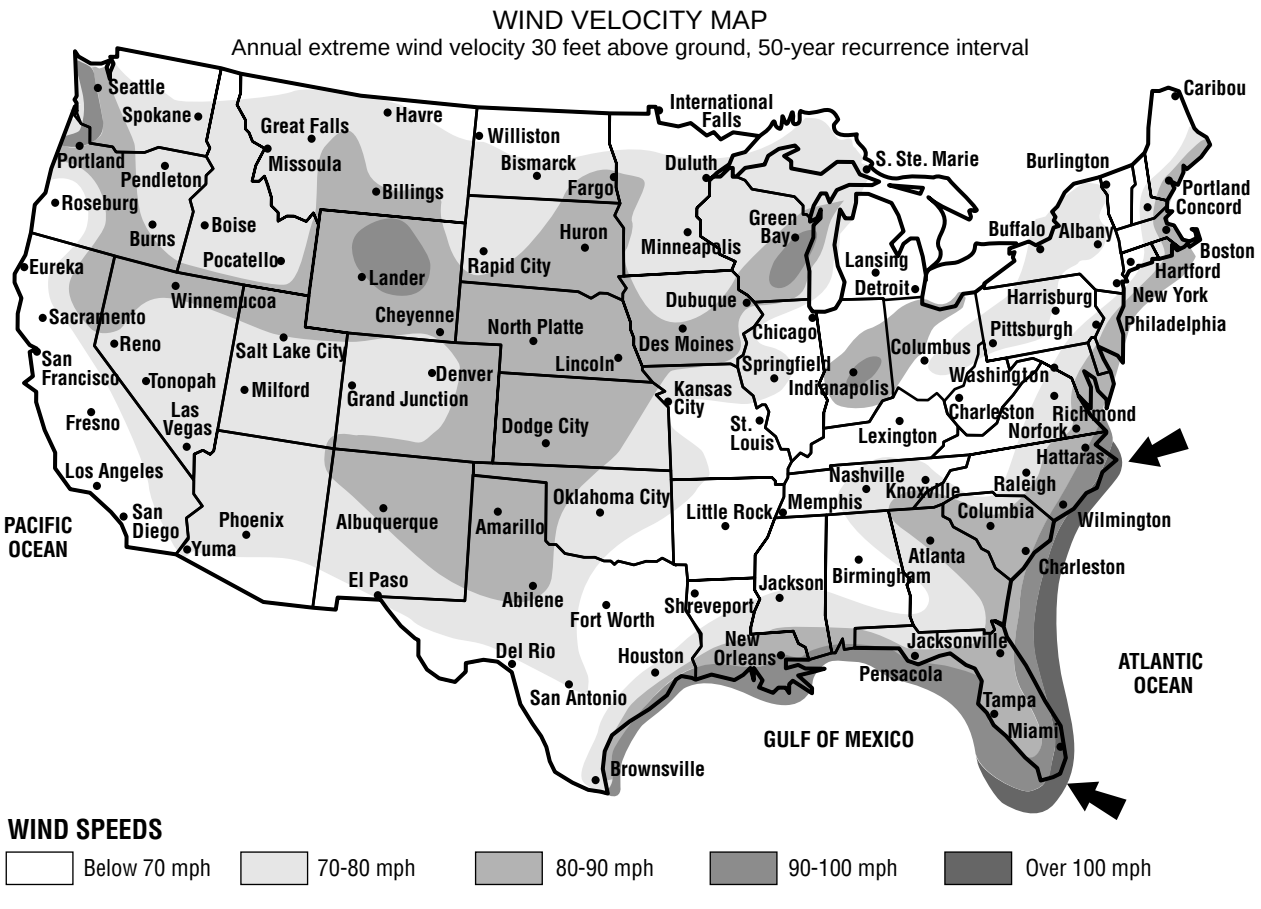

Fig. 250-2

Basic Wind Speed (miles per hour).

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T&B® Cable Tray

Technical Information – Loading for Grades B, C, and D

ICE, WIND AND TEMPERATURE

	Loading Districts (for use with Rule 250B)			Extreme wind loading (for use with Rule 250C)
	Heavy	Medium	Light	
Radial thickness of ice				
in.	0.50	0.25	0	0
mm	12.5	6.6	0	0
Horizontal wind pressure				
lbs / sq. ft.	4	4	9	See Fig. 250-2
mm	190	190	430	
Temperature				
°F	0	+15	+80	+60
°C	-20	-10	-1	+18

Table 250-1

HORIZONTAL WIND PRESSURES ON CYLINDRICAL SURFACES

Wind Speed		Wind Pressure	
(mi/h)	(m/s)	(lb/ft.2)	(kPa)
70	31	13	0.60
80	36	16	0.78
90	40	21	1.00
100	45	26	1.29
110	49	31	1.48

Table 250-2

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T&B® Cable Tray

Technical Information – Electromagnetic Shielding

T&B ELECTROMAGNETIC SHIELDED CABLE TRAYS

For large installations, cable trays with effective shielding properties against electrostatic and electromagnetic interference are as essential as conventional cable trays for power distribution. Metal conduits are effective for small numbers of wires, but for large numbers they are unacceptably expensive, high in space requirements and cannot be adapted to an expanding network.

T&B Electromagnetic Shielded cable trays are designed to fit into the usual plant layout, carry a large number of wires, provide space for unforeseen extensions and protect electronic circuitry from extraneous interference by attenuating disturbing fields to an acceptable level.

Need for Shielding

Electronics have come to play an important role in the operation and control of many manufacturing plants and other large installations. Sensitive electronic instruments, transducers of remote control, static logic groups, digital data-collecting systems and process control computers operate at low energy levels, where magnitudes are commonly expressed in milliamperes, microvolts and nanoseconds.

Along with this ever-increasing automation, a great expansion has occurred in the size of power systems, with exponential growth in the number of cables and wires. Although the power system's electromechanical relays and switches are quite insensitive to extraneous interference, they generate surge currents. These currents produce high electromagnetic and electrostatic fields, both in their immediate surroundings and along their connecting cables, which may be a mile long.

These high-power fields induce high voltage and currents in nearby low energy level electronic circuitry, where false signals start cascading control operations or interfere with digital circuitry. The resulting erroneous data transmissions can have unforeseeable consequences.

The electronic circuitry's wires and cables can be effectively protected from mutual interference by twisted pairs of wires, shielded jacketing and proper grounding of the shields, but these measures do not offer adequate protection against high-power fields. Effective protection requires that the wires and cables be enclosed in jackets with good conductivity to minimize interference from electrostatic fields and good magnetic permeability to minimize electromagnetic field interference.

Effect of Shielding

The graphs summarize the results of tests designed to evaluate the shielding effectiveness of the T&B Electromagnetic Shielded cable tray. For purposes of comparison, the results obtained using 2" diameter steel conduit as the shielding jacket are plotted on the same graph.*

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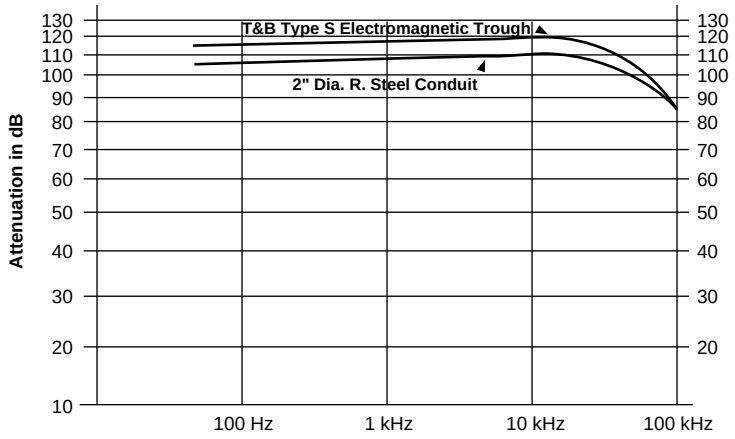
T&B® Cable Tray

Technical Information – Electromagnetic Shielding

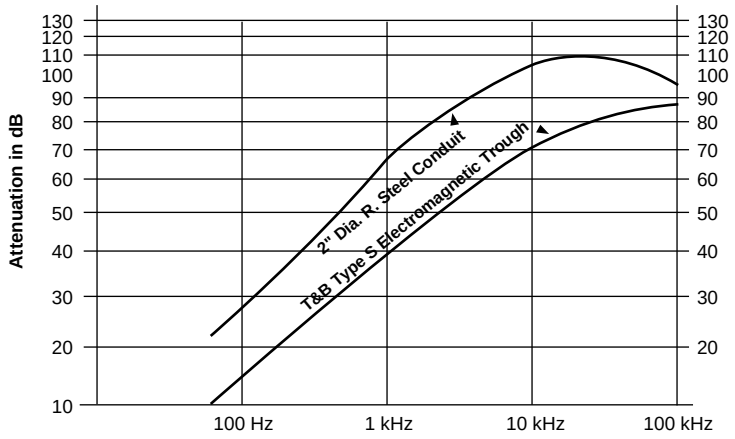
The attenuation data are plotted on a log/log scale because the dB scale is logarithmic. For example, an electrostatic attenuation of 118 dB means that an extraneous field that would induce 16 volts in an unprotected circuit would induce only 30 microvolts in a protected circuit, i.e., 1/800,000 of the unprotected value. Against such low interference, the twisted individual wire pairs and other precautions mentioned above should provide adequate protection.

Standard Electromagnetic Shielded cable trays use screws to secure the covers of the troughs and splice shields. Cover clamps, which greatly facilitate installation with only a slight loss of attenuation, can be supplied on request instead of screws.

T&B ELECTROSTATIC



T&B ELECTROMAGNETIC



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T&B® Cable Tray

Technical Information – Engineering Cable Tray Specification

A. Cable Tray

1. Cable tray shall be by one manufacturer and shall consist of straight sections, fittings and accessories per NEMA VE1. Cable tray must be listed by UL as equipment grounding conductors. There shall be no burrs, projections or sharp edges to damage the cable insulation.

B. Material

1. **Aluminum.** All siderails, and rungs shall be of extruded aluminum type 6063-T6. Siderails shall be of I-beam construction.
2. **Pre-Galvanized steel.** All siderails and rungs shall be of steel conforming to the requirements of ASTM A653/A653M with G90 coating thickness. Siderail shall be reinforced with flanges turned inward.
3. **Hot Dip Galvanized Steel.** All siderails and rungs shall be made from steel conforming to the requirements of ASTM A611 Gr. C or ASTM A570 Gr. 33 and shall be hot dip galvanized after manufacture per ASTM A123 providing a minimum thickness of 1.50 oz per ft^2.
4. **Stainless Steel.** All cable tray and accessories shall be of type AISI 304 or type AISI 316 stainless steel.

C. Tray Types

1. **Ladder.** Ladder tray shall incorporate two siderails connected by lateral rungs. Rungs shall provide minimum 1⅝" bearing surface and have slots perpendicular to the centerline of the rung on 1" centers for attachment of cable ties. Rungs shall also have an open slot to facilitate attachment of pipe straps and other accessories. Rungs shall be installed on 6", 9", 12" or 18" centers. The rungs shall not be below the bottom of the siderail.
2. **Solid Bottom.** Solid Bottom tray shall incorporate two siderails connected by rungs on 12" centers with a solid aluminum sheet applied below the rungs.
3. **Ventilated trough.** Ventilated trough tray shall incorporate two siderails connected by rungs on 12" centers with ventilated sheet applied below the rungs and above the siderail flanges.

D. Dimensions

1. **Siderail height.** Siderails heights shall be 3½", 3⅞", 4", 5", 6", and 7" minimum loading depths shall be 3", 4", 5", and 6".
2. **Length.** All cable tray straight sections shall be supplied in 12' and 24' lengths.
3. **Width.** Cable tray shall be supplied in 6", 9", 12", 18", 24", 30", 36", and 42" widths as required.
4. **Radiused Fittings.** For all fittings requiring a radius that radius shall be 12", 24", 36", and 48" and shall be measured to the nearest perpendicular surface.

E. Accessories

1. **Covers and accessories.** Covers shall be supplied to protect tray cable where needed. Appropriate holddowns shall be supplied to properly attach the covers to the tray.
2. **Splice Plates.** Aluminum splice plates shall be designed to snap into tray siderail and shall be supplied with four square neck carriage bolts and hex nuts for attachment. Steel splice plates shall be supplied with four square neck carriage bolts and hex nuts for attachment.

F. Loading Capabilities

1. Cable tray shall meet specified NEMA load with safety factor of 1.5. The cable tray should also be able to support a 200lb. concentrated load at midspan over and above stated cable load.

G. Design and manufacture

1. Cable tray design shall be that of T&B Cable Tray Systems as manufactured by Thomas & Betts.

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T&B® Cable Tray

Technical information – T&B Tray Series vs. Nema Class

ALUMINUM					NEMA CLASSES S.F.=1.5							
	8A	8B	8C	12A	12B	12C	16A	16B	16C	20A	20B	20C
HEIGHT												
3⅞"	AL1-3⅞	AL1-3⅞										
4"	AL1-4	AL1-4	AL1-4	AL1-4	AL1-4							
	AL2-4	AL2-4	AL2-4	AL2-4	AL2-4	AL2-4	AL2-4					
	AL3-4	AL3-4	AL3-4	AL3-4	AL3-4	AL3-4	AL3-4	AL3-4	AL3-4	AL3-4	AL3-4	
5"	AL2-5	AL2-5	AL2-5	AL2-5	AL2-5	AL2-5	AL2-5	AL2-5				
	AL3-5	AL3-5	AL3-5	AL3-5	AL3-5	AL3-5	AL3-5	AL3-5	AL3-5	AL3-5		
6"	AL1-6	AL1-6	AL1-6	AL1-6	AL1-6	AL1-6	AL1-6	AL1-6		AL1-6		
	AL2-6	AL2-6	AL2-6	AL2-6	AL2-6	AL2-6	AL2-6	AL2-6	AL2-6	AL2-6	AL2-6	AL2-6
	AL3-6	AL3-6	AL3-6	AL3-6	AL3-6	AL3-6	AL3-6	AL3-6	AL3-6	AL3-6	AL3-6	AL3-6
7"	AL2-7	AL2-7	AL2-7	AL2-7	AL2-7	AL2-7	AL2-7	AL2-7	AL2-7	AL2-7	AL2-7	
	AL3-7	AL3-7	AL3-7	AL3-7	AL3-7	AL3-7	AL3-7	AL3-7	AL3-7	AL3-7	AL3-7	AL3-7

STEEL PRE-GALV & HOT DIPPED					NEMA CLASSES S.F.=1.5							
	8A	8B	8C	12A	12B	12C	16A	16B	16C	20A	20B	20C
HEIGHT												
3½"	PG1-3½	PG1-3½	PG1-3½	PG1-3½								
4"	PG1-4	PG1-4	PG1-4	PG1-4	PG1-4	PG1-4	PG1-4					
	PG2-4	PG2-4	PG2-4	PG2-4	PG2-4	PG2-4	PG2-4	PG2-4		PG2-4		
	PG3-4	PG3-4	PG3-4	PG3-4	PG3-4	PG3-4	PG3-4	PG3-4	PG3-4	PG3-4	PG3-4	
5"	PG2-5	PG2-5	PG2-5	PG2-5	PG2-5	PG2-5	PG2-5					
	PG3-5	PG3-5	PG3-5	PG3-5	PG3-5	PG3-5	PG3-5	PG3-5	PG3-5	PG3-5	PG3-5	PG3-5
6"	PG1-6	PG1-6	PG1-6	PG1-6	PG1-6	PG1-6	PG1-6					
	PG2-6	PG2-6	PG2-6	PG2-6	PG2-6	PG2-6	PG2-6	PG2-6		PG2-6		
	PG3-6	PG3-6	PG3-6	PG3-6	PG3-6	PG3-6	PG3-6	PG3-6	PG3-6	PG3-6	PG3-6	PG3-6
7"	PG2-7	PG2-7	PG2-7	PG2-7	PG2-7	PG2-7	PG2-7	PG2-7		PG2-7		
	PG3-7	PG3-7	PG3-7	PG3-7	PG3-7	PG3-7	PG3-7	PG3-7	PG3-7	PG3-7	PG3-7	PG3-7

STAINLESS STEEL					NEMA CLASSES S.F.=1.5							
	8A	8B	8C	12A	12B	12C	16A	16B	16C	20A	20B	20C
HEIGHT												
3½"	S41-3½	S41-3½	S41-3½									
	S61-3½	S61-3½	S61-3½									
4"	S41-4	S41-4	S41-4	S41-4								
	S61-4	S61-4	S61-4	S61-4								
	S42-4	S42-4	S42-4	S42-4	S42-4	S42-4	S42-4	S42-4	S42-4	S42-4		
	S62-4	S62-4	S62-4	S62-4	S62-4	S62-4	S62-4	S62-4	S62-4	S62-4		
5"	S41-5	S41-5	S41-5	S41-5								
	S61-5	S61-5	S61-5	S61-5								
	S42-5	S42-5	S42-5	S42-5	S42-5		S42-5					
	S62-5	S62-5	S62-5	S62-5	S62-5		S62-5					
	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5
	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5	S43-5
6"	S41-6	S41-6	SS1-6	S41-6	S41-6							
	S61-6	S61-6	S61-6	S61-6	S61-6							
	S42-6	S42-6	S42-6	S42-6	S42-6	S42-6	S42-6	S42-6		S42-6		
	S62-6	S62-6	S62-6	S62-6	S62-6	S62-6	S62-6	S62-6		S62-6		
	S43-6	S43-6	S43-6	S43-6	S43-6	S43-6	S43-6	S43-6	S43-6	S43-6	S43-6	S43-6
	S63-6	S63-6	S63-6	S63-6	S63-6	S63-6	S63-6	S63-6	S63-6	S63-6	S63-6	S63-6
7"	S42-7	S42-7	S42-7	S42-7	S42-7	S42-7	S42-7	S42-7		S42-7		
	S62-7	S62-7	S62-7	S62-7	S62-7	S62-7	S62-7	S62-7		S62-7		

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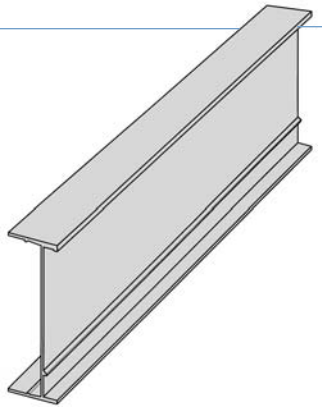
The Thomas & Betts Advantage

— Unique Design Points —

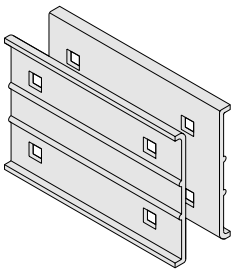
I-Beam Siderail

— Maximum structural strength.
All straight sections are I-Beam Siderail design.



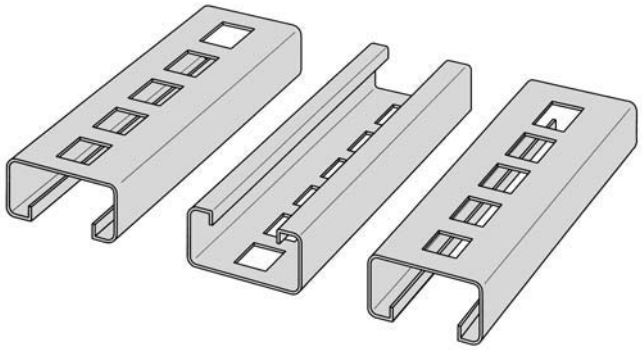
Snap-in Splice Plates

— Snap-in aluminum splice plates for easy installation.



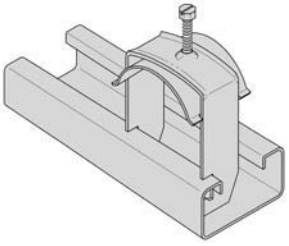
Alternating Rungs

— Alternating rungs for top and bottom accessory installation and cable lashing.



Continuous Open Slot

— Rungs have continuous open slot to accept standard strut pipe clamps and gives complete barrier strip adjustability.



T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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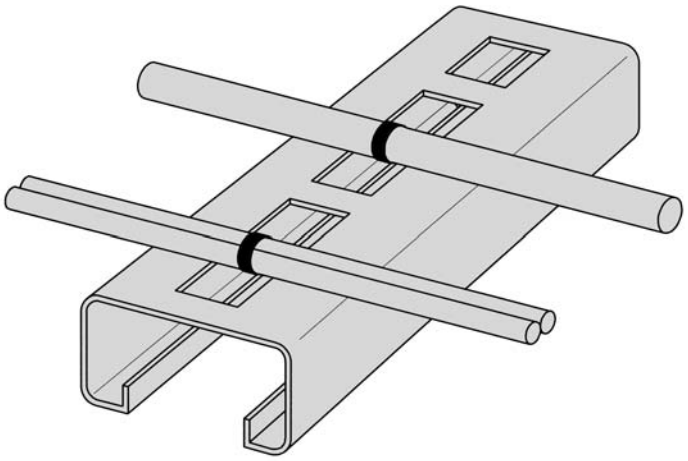
The Thomas & Betts Advantage

— Unique Design Points —

Ty-Rap® Cable Tie Slots

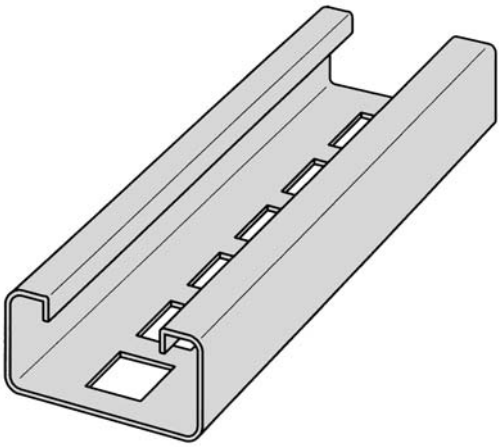
— Exclusive Ty-Rap® cable tie slots on 1" centers on all ladder and ventilated bottoms.

Secures cables without kinks and keeps cables uniform.



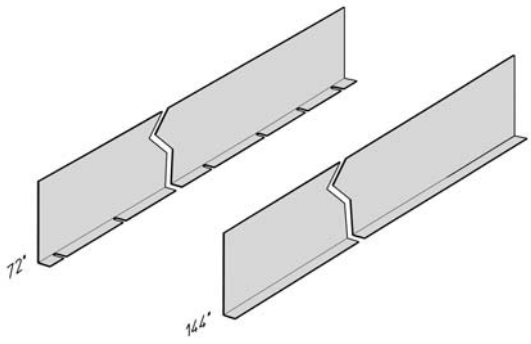
Extra Wide Rung Design

— Extra wide rung design for maximum cable bearing surface.



Adjustable Barrier Strips

— Barrier strips are fully adjustable (side to side) in straight sections and fittings.



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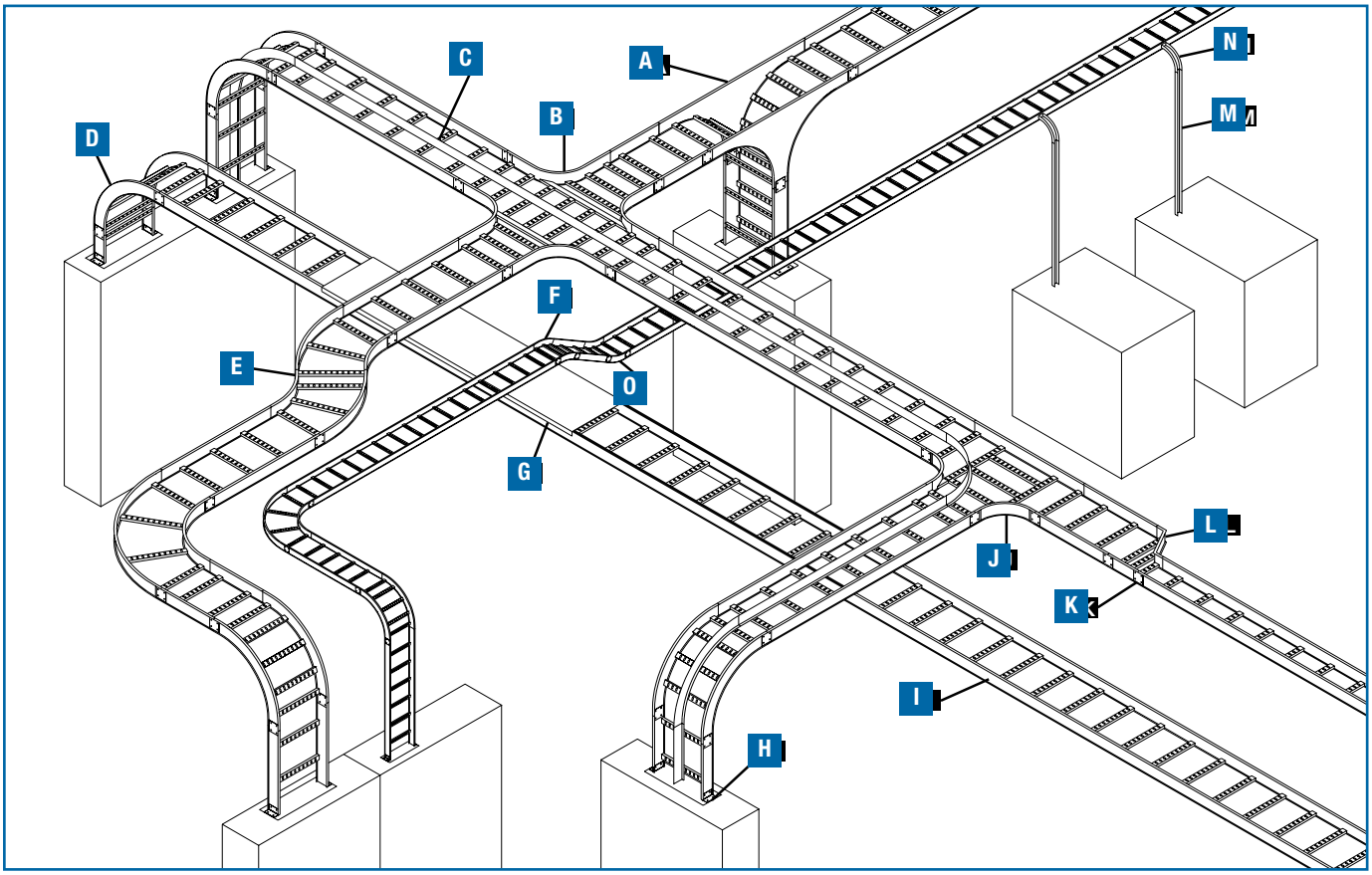
Sample Plant Layout



A	Vertical Tee Up/Down
B	Horizontal Cross
C	Barrier Strip
D	90° Vertical Outside Bend
E	45° Horizontal Bend
F	45° Vertical Outside Bend
G	Solid Flanged Cover
H	Box Connector
I	Ladder Tray
J	Horizontal Tee
K	Splice Plate
L	Reducer
M	Cable Channel
N	Cable Channel – 90° Vertical Outside Bend
O	45° Vertical Inside Bend

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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In order to offer as many options as possible to our customers, Thomas & Betts' Aluminum Cable Tray is available in two distinct formats

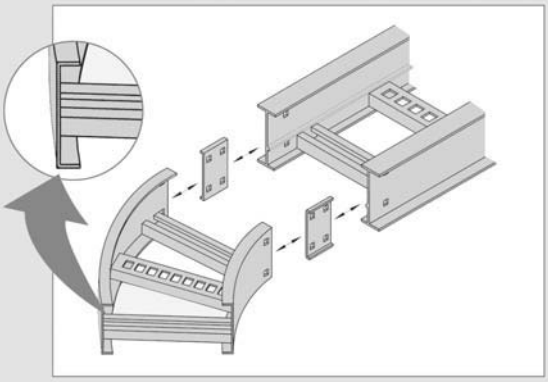
(Note that the H-Series and U-Series systems are not interchangeable. Once you have selected a system, you must be consistent)

Which Tray Style Meets the Project Criteria and Budget?

U Style

Features

- Functional design
- Simplicity of design
- No tangents on fittings
- Snap-in splice plate
- U-shaped fitting siderails

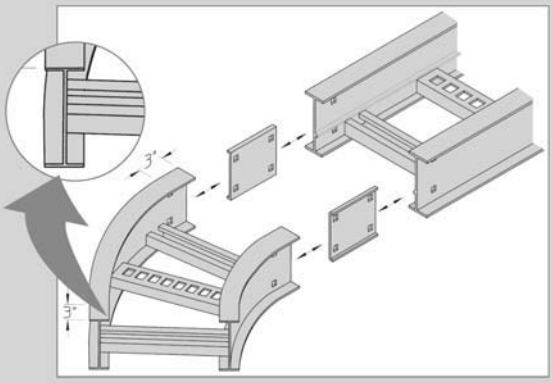


See page **H6** for more details

H Style

Features

- Premium design
- Simplicity of design
- 3" tangents on fittings
- Snap-in splice plate
- H-shaped fitting siderails



See page **H7** for more details

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The H-Style and U-Style systems are not interchangeable. Once you have selected a system, you must be consistent.

U-STYLE

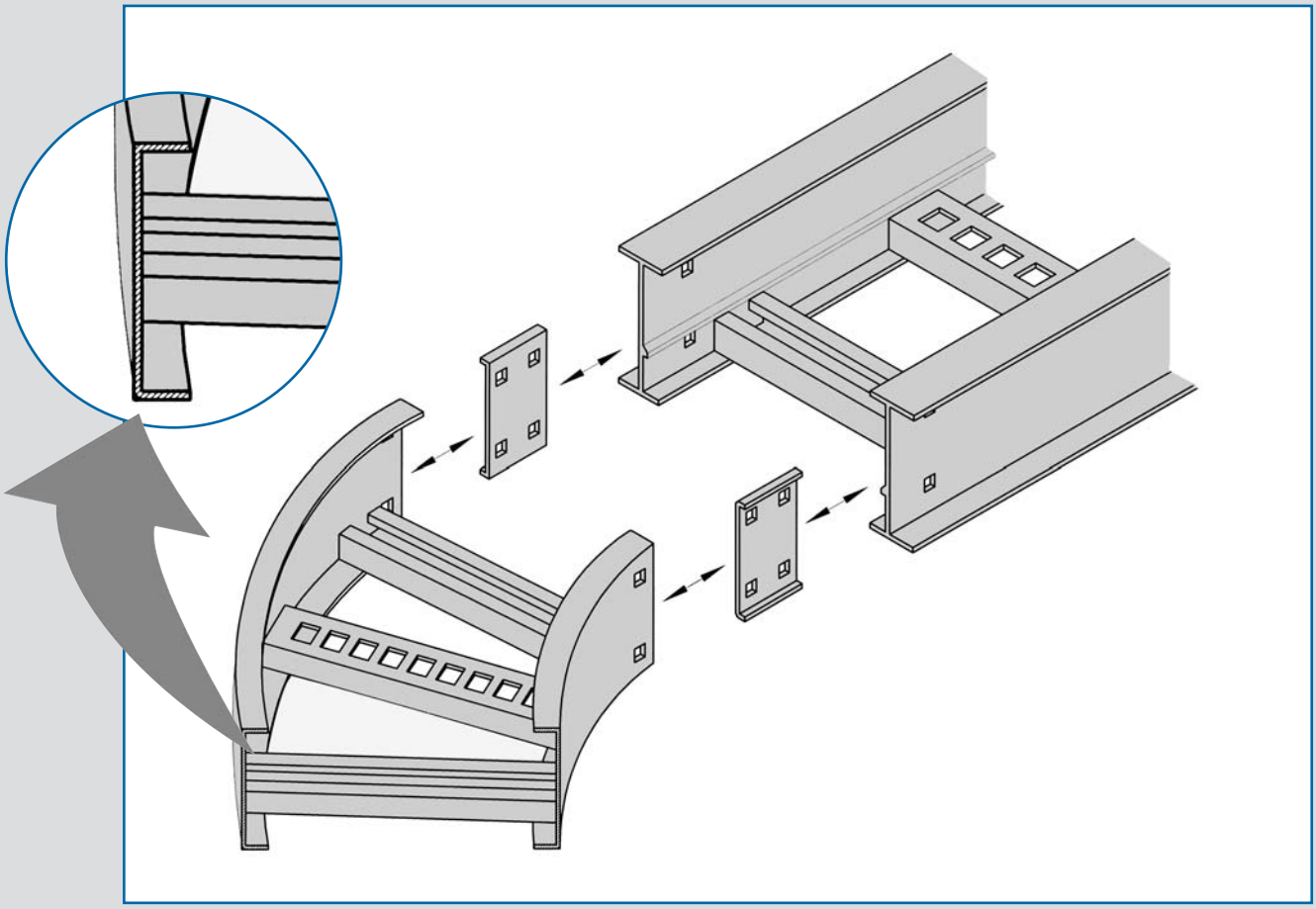
— **U-Style** features fittings constructed with side rail flanges on the inside only (U-Beam).

Features

- Functional design
- Simplicity of design
- No tangents on fittings
- Snap-in splice plate
- I-Beam Siderail design for straight sections.
- U-shaped fitting siderails
- 4" Splice Plate

Benefits

- Lowest purchase price
- Easy to install
- Occupies less space in areas where space is restrained
- Easy to align straights
- Splice plate holds components together while hardware is inserted
- Lighter fittings are easy to handle



T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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Explaining the Styles

The H-Style and U-Style systems are not interchangeable. Once you have selected a system, you must be consistent.

H-STYLE

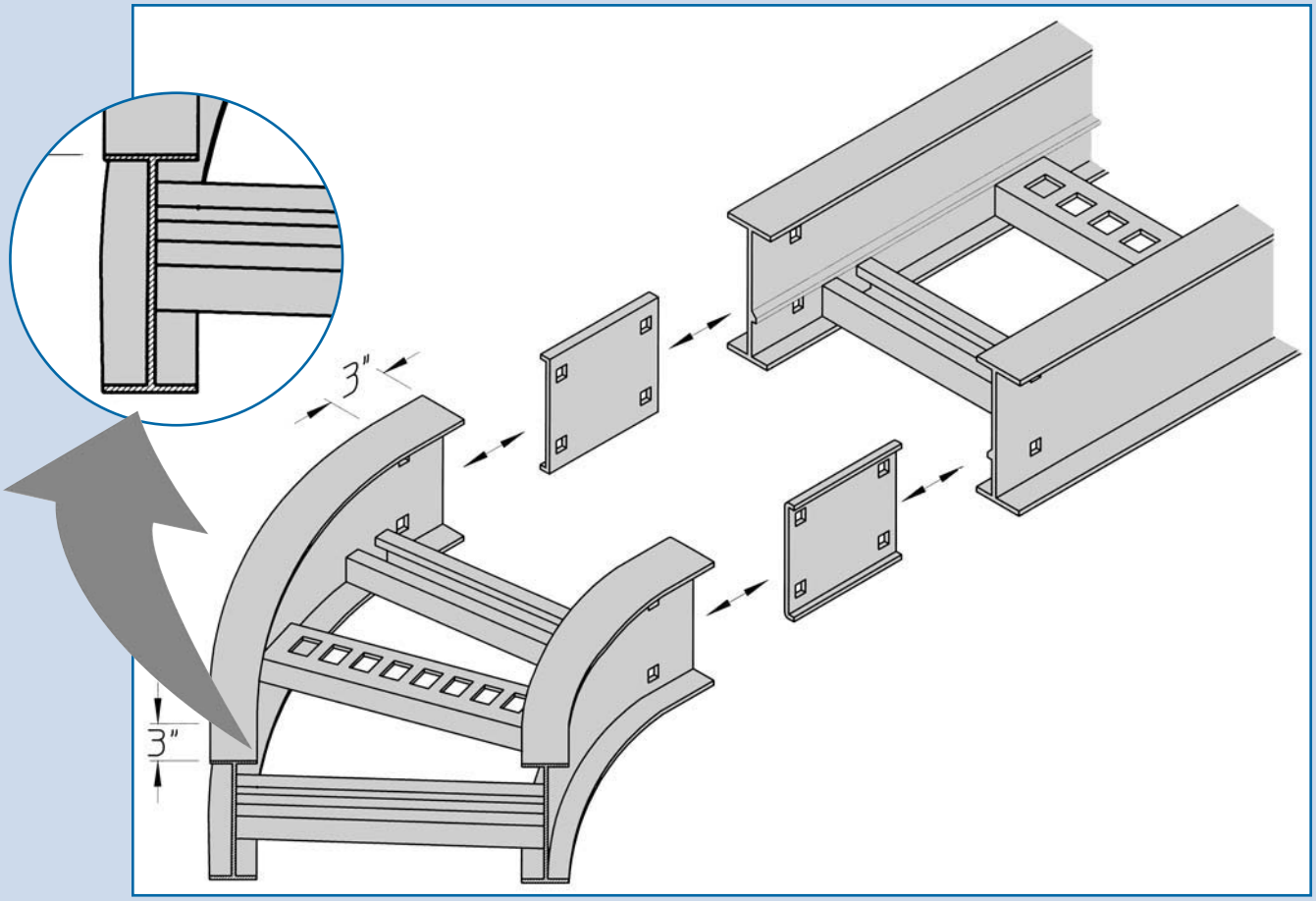
— **H-Style** features fittings constructed with side rail having inner and outer flanges (H-Beam).

Features

- Premium design
- Simplicity of design
- 3" tangents on fittings
- Snap-in splice plate
- I-Beam Siderail design for straight sections.
- H-shaped fitting siderails
- 7" Splice Plate

Benefits

- Improved aesthetics and customer appeal
- Easy to install
- Improved system rigidity
- Easy to align straights and fittings
- Splice plate holds components together while hardware is inserted
- Improved system rigidity



T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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T&B® Cable Tray Aluminum

Selection Process

Selection Steps

In order to ensure that your CABLE TRAY installation will meet your present and future needs, a sequence of decisions must be made. These decisions are relatively simple and can be condensed down to **7** steps.

1 Material Choice: Aluminum

2 Loading Capacity (including meteorological loading, wind, snow, ice, etc...)

3 Choose the type of Siderail Style you prefer for your project

4 Type of Tray Bottom:
- Ladder
- Ventilated
- Solid

5 Tray Width and Height

6 Fittings Selection

7 Electrical Grounding Capacity

→ Each step is explained in detail on the following pages.

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Selection Process

Selection Steps

1 Material Choice (Aluminum)

Cable trays fabricated of extruded aluminum are often used for their high strength-to-weight ratio, superior resistance to certain corrosive environments, and ease of installation. They also offer the advantages of being light weight (approximately 50% that of a steel tray) and maintenance free, and since aluminum cable trays are non-magnetic, electrical losses are reduced to a minimum.

T&B cable tray products are formed from the 6063 series alloys which by design are copper free alloys for marine applications. These alloys contain silicon and magnesium in appropriate proportions to form magnesium silicide, allowing them to be heat treated. These magnesium silicon alloys possess good formability and structural properties, as well as excellent corrosion resistance.

The unusual resistance to corrosion, including weathering, exhibited by aluminum is due to the self-healing aluminum oxide film that protects the surface. Aluminum's resistance to chemicals in the application environment should be tested before installation.

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Loading

2 Select the Tray Class / Load Capacity

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with **Table 1**.

Please note the load ratings in Table 1 are those most commonly used. Other load ratings are acceptable.

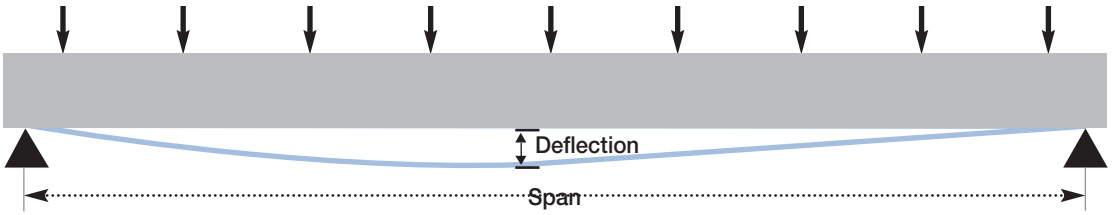
For Selection of Thomas & Betts Series of Cable Tray, please refer to **Table 2**.

TABLE 1 **Load / Span Class Designation**

37	(25)	—	A	—	—	—
67	(45)	—	—	—	—	D
74	(50)	8A	—	12A	16A	20A
97	(65)	—	C	—	—	—
112	(75)	8B	—	12B	16B	E or 20B
149	(100)	8C	—	12C	16C	20C
179	(120)	—	D	—	—	—
299	(200)	—	E	—	—	—

NOTE: 8A/B/C, 12A/B/C, 16A/B/C, and 20A/B/C are the traditional NEMA designations.

A, C, D, and E are the conventional CSA designations.



Cable Loads: The cable load is the total weight, expressed in lbs./ft., of all the cables that will be placed in the cable tray.

Snow Loads: Depending on the area, snowfall could indicate an additional design load. If snowfall is a factor and the tray has a solid cover in outdoor installations, a minimum load of 5 lbs. per square foot should be used.

Ice Loads: If a cable tray system is subject to icing conditions, usually only the top surface or cover and the windward side will be coated with any significant amount. It is generally assumed that ice weighs 57 lbs. per cubic foot.

Wind Loads: All outdoor cable tray installations should factor in wind loads, especially the pressure exerted on siderails of ladder trays. There have also been instances of strong winds lifting covers off trays, which can be minimized with the use of wraparound cover clamps.

It is important to note that cable tray is not designed to support personnel.
The user should display appropriate warnings to prevent the use of cable tray as walkways.

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Correlation of T&B Series to NEMA & CSA LOADING CLASSES.

TABLE 2 Load / Span Class Designation

4"	AH04 (AU04)	3"	8B	-
	AH14 (AU14)		12A	C1/3m
	AH24 (AU24)		12B	D1/3m
	AH34 (AU34)		12C	D1/6m
	AH44 (AU44)		20A	E/3m
	AH54 (AU54)		20B	E/6m
5"	AH25 (AU25)	4"	12C	D1/6m
	AH35 (AU35)		20A	E/3m
	AH45 (AU45)		20B	E/6m
6"	AH16 (AU16)	5"	12C	D1/6m
	AH26 (AU26)		20A	E/3m
	AH36 (AU36)		20B	E/6m
	AH46 (AU46)		20C	-
	AH56 (AU56)		20C	-
	AH66 (AU66)		20C	-
7"	AH27 (AU27)	6"	20B	E/6m
	AH37 (AU37)		20C	-

NOTE

Concentrated Loads

A concentrated static load is not included in the **Table 1**. Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (W_e) in kilograms/metre (pounds/linear foot), using the following formula, and added to the static weight of cable in the tray:

$$W_e = \frac{2 \times (\text{concentrated static load, kg (lb.)})}{\text{Span length, m (ft.)}}$$

This combined load may be used to select a suitable load/span designation (refer to Table 2). If the combined load exceeds the working load shown in the Table 2, the manufacturer should be consulted.

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Selection Steps

3 Choose the Type of Siderail Series you prefer for your project

T&B Cable Tray is available in two styles.

U-Style

The fitting siderails are fabricated from U-Shaped extrusions. This system maximizes quality versus cost ratio of the installation (see page H6 for illustration of U-Style Fitting Siderail).

H-Style

The fitting siderails are fabricated from H-Shaped extrusions. This system focuses attention on the aesthetics of the installation (see page H7 for illustration of H-Style Fitting Siderail).

- Both styles utilize I-Beam Siderail design for straight sections.

4 Select the Type of Tray Bottom

Cable Tray is available with three bottoms:

LADDER CABLE TRAY is a prefabricated structure consisting of two longitudinal siderails connected by individual transverse members.

VENTILATED CABLE TRAY is a prefabricated structure consisting of a ventilated bottom within integral or separate longitudinal siderails, with no openings exceeding 4 in. in a longitudinal direction.

SOLID BOTTOM CABLE TRAY is a prefabricated structure without openings in the bottom (see page H18 for photographs of actual construction).

Ladder tray is most often used because of its cost-effectiveness. The designer has a choice of four nominal rung spacings: 6, 9, 12, and 18 inches. The greatest rung spacing compatible with an adequate cable bearing surface area should be selected. Heavy power cables often require greater cable bearing area due to the possibility of creep in the jacket material of the cable. If this is a concern, consult the cable manufacturer. This condition may require the use of ventilated tray, which also offers additional mechanical protection for the cables.

Local building codes may require totally enclosed cable tray systems under certain conditions. The designer should verify these before specifying the type of tray to be used.

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Selection Steps

5 Select the Tray Size (Tray Width and Height)

The width or height of a cable tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 6, 9, 12, 18, 24, 30, 36 and 42 inches.

When specifying width, it is important to remember that the load rating does not change as the width increases. Even with six times the volume, a 36 in. wide tray cannot hold any more weight than a 6 in. wide tray. If the load rating of the tray permits, cable can be piled deeper in the tray. Most tray classes are available in a nominal 4, 5, 6 and 7 inch height. Cable ties or other spacing devices may be used to maintain the required air space between cables.

6 Select the Fittings

Fittings are used to change the size or direction of the cable tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be 12, 24, 36 or 48 in., or even greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost. The typical radius is 24 in.

Fittings are also available for 30°, 45°, 60°, and 90° angles. When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points. Refer to NEMA VE2 Installation Guidelines for suggested support locations.

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Selection Steps

7 Electrical Grounding Capacity

The National Electrical Code, Article 318-7 allows cable tray to be used as an equipment grounding conductor. All T&B standard aluminum cable trays are classified by Underwriter's Laboratories per US NEC Table 318-7 based on their cross sectional area.

The corresponding cross-sectional area for each siderail design (2-siderails) is listed on a label. This cable tray label is attached to each straight section and fitting that is UL classified.

NEC TABLE 318-7
Metal Area Requirements for Cable Trays Used as Equipment Grounding Conductors

Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System	Minimum Cross-Sectional Area of Metal* In Square Inches	
	Steel Cable Trays	Aluminum Cable Trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50 **	0.40
1000	-	0.60
1200	-	1.00
1600	-	1.50
2000	-	2.00 **

For SI units: one square = 645 square millimeters.

* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.

** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.

For larger ampere ratings an additional grounding conductor must be used.

See pages H87 to H89 for grounding and bonding products.

For more information on grounding and bonding cable tray refer to section 5 NEMA VE 1-1998/CSA C22.2 No. 126.1-98 Metal Cable Tray Systems.

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Notes

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Photo courtesy of SYNTECH Syndicated Technologies Ltd.

T&B® Cable Tray Aluminum

Features

Features

- Straight Siderail Design: Extruded I beam
  Nominal Height 4" to 7"
  Loading Height 3" to 6"
- Snap-in splice plate connection.
- Reverse position of every other rung for bottom or top mounting of cable ties.
- Versatile continuous open slot rungs (strut profile).
- Exclusive Ty-Rap cable tie slots (⅝ x ⅝) on one inch (1") centers.
- Extra wide rung design.
- Four bolt connection.
- Choice of two styles of fitting (U & H) siderails.

Applications

COMMERCIAL

- Schools
- Hospitals
- Office Buildings
- Airports
- Casinos
- Stadiums

INDUSTRIAL

- Petro-Chemical Plants
- Automotive Plants
- Paper Plants
- Food Processing
- Power Plants
- Refineries
- Manufacturing
- Mining

Accessories

- Each pair of splice plates comes with ⅜" mounting hardware.
- Complete line of accessories and support systems.

Material

6063 T6 Aluminum Alloy

Compliance

CSA, NEMA, NEC, UL

Load Ratings

1.5 Safety factor. All tray sections will support an additional 200 Lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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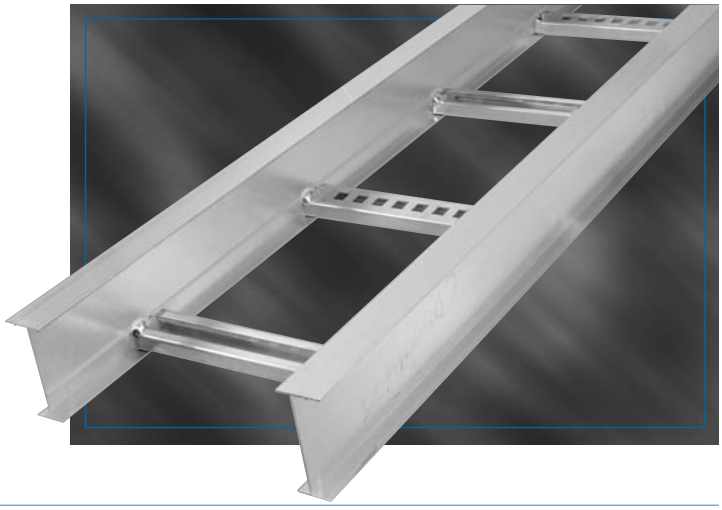
T&B® Cable Tray Aluminum

Straight Length Tray Bottom – Types Available – Ladder, Ventilated and Solid Trough

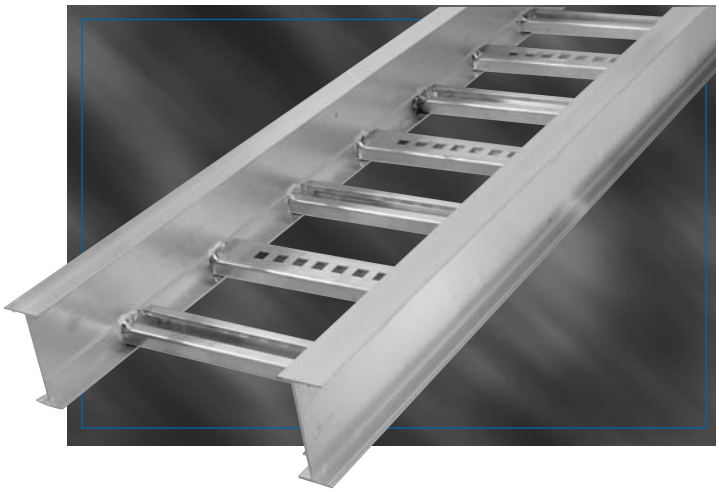
Ladder

— Extra wide aluminum rungs are welded to extruded aluminum I-beam siderails. Every second rung is reversed to allow for easy top or bottom mounting of cable ties and clamps. All edges and welds are rounded and smooth to prevent cable damage.



Ventilated

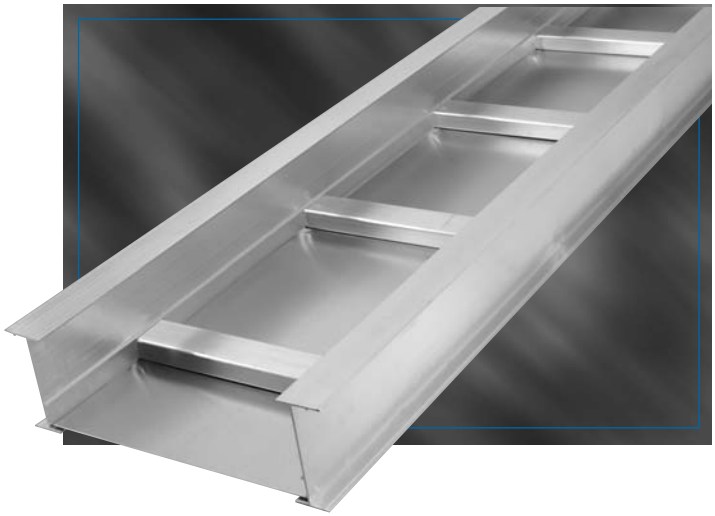
— A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the surface to support cables. The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in) in the direction parallel to the tray side rails (rung to rung).



Solid Trough

— A fabricated structure consisting of a bottom without ventilation openings within separate longitudinal side rails.

Rungs are not perforated, and not alternated (up/down). However, Ty-Raps can be inserted diagonally between rung and bottom sheet for cable fastening.



NOTE:

Fast and easy snap-in splice plates are provided with each straight section.

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Straight Section – Number Selection

U-Style Straight Sections

U-Style straight sections utilize a 4" splice plate and the fittings do not have tangents at the extremities.

This style offers maximum quality versus cost ratio of the installation

H-Style Straight Sections

H-Style straight sections utilize a 7" splice plate

This style offers enhanced aesthetics to the end-user.

Straight Section Number Selection

(AU1-6) 24-L09-144

Material	Fitting Style	Series	Siderail Height	Width	Bottom Type	Length
A • Aluminum	**U** • U-Beam	** **0** • Series 0	**4"**	**06** • (6")	**L06** • 6" rung spacing	**144** • (12ft)
	H • H-Beam	*** **1** • Series 1		**09** • (9")	**L09** • 9" rung spacing	**288** • (24ft)
		2 • Series 2		**12** • (12")	**L12** • 12" rung spacing	**3** • (3 meters)
		3 • Series 3		**18** • (18")	* **L18** • 18" rung spacing	**6** • (6 meters)
		4 • Series 4		**24** • (24")	**V** • Ventilated	
		5 • Series 5		**30** • (30")	**S** • Solid Trough	
				36 • (36")		
		2 • Series 2 **3** • Series 3 **4** • Series 4	**5"**	* **42** • (42")		
		1 • Series 1 **2** • Series 2 **3** • Series 3 **4** • Series 4 **5** • Series 5 **6** • Series 6	**6"**			
		2 • Series 2 **3** • Series 3	**7"**			

* **Only upon request** (consult factory for loading).
** **Series 0 is not available in 288" or 6 meter lengths.**
*** **Series AU1-4 is not available in 6 meter lengths.**

For more detailed specifications please consult pages H20 to H33.

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T&B® Cable Tray Aluminum

4" Straight Sections – Series 0-4, 1-4, 2-4 – Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AU0-4)-24-L09-144

Material	Fitting Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	**U** • U-Beam	** **0** • Series 0	**4** • (4")	**06** • (6")	**L06** • 6" rung spacing	**144** • (12ft)
	H • H-Beam	*** **1** • Series 1		**09** • (9")	**L09** • 9" rung spacing	**288** • (24ft)
		2 • Series 2		**12** • (12")	**L12** • 12" rung spacing	**3** • (3 meters)
				18 • (18")	* **L18** • 18" rung spacing	**6** • (6 meters)
				24 • (24")	**V** • Ventilated	
				30 • (30")	**S** • Solid Trough	
				36 • (36")		
				* **42** • (42")		

* **Only upon request** (consult factory for loading).
** **Series 0 is not available in 288" or 6 meter lengths.**
*** **Series 1 is not available in 6 meter lengths.**

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR
For lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For FITTINGS consult pages H42 to H69.

SERIES		SUPPORT SPAN (Feet) 6	8	10	12	14	16	18	20
AU0-4 / AH0-4	Load (lbs./ft.)	152	86	55	38	-	-	-	-
	Deflection (in.)	0.265	0.472	0.737	1.062	-	-	-	-
	Deflection Factor	0.002	0.006	0.013	0.028	-	-	-	-
AU1-4 / AH1-4	Load (lbs./ft.)	239	134	86	60	44	34	27	22
	Deflection (in.)	0.318	0.565	0.884	1.272	1.732	2.262	3.863	3.534
	Deflection Factor	0.001	0.004	0.010	0.021	0.039	0.067	0.108	0.164
AU2-4 / AH2-4	Load (lbs./ft.)	358	202	129	90	66	51	40	32
	Deflection (in.)	0.416	0.740	1.156	1.673	2.277	2.974	3.764	4.590
	Deflection Factor	0.001	0.004	0.009	0.019	0.034	0.059	0.094	0.143

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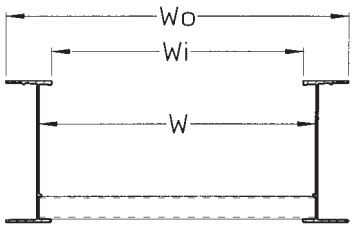
T&B® Cable Tray Aluminum

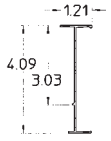
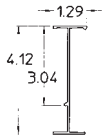
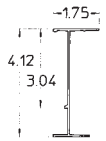
4" Straight Sections – Series 0-4, 1-4, 2-4 – Ladder, Ventilated and Solid Trough



W (in.)	AU0-4 / AH0-4		AU1-4 / AH1-4		AU2-4 / AH2-4	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	7.35	4.93	7.46	4.88	8.38	4.88
9	10.35	7.93	10.46	7.88	11.38	7.88
12	13.35	10.93	13.46	10.88	14.38	10.88
18	19.35	16.93	19.46	16.88	20.38	16.88
24	25.35	22.93	25.46	22.88	26.38	22.88
30	31.35	28.93	31.46	28.88	32.38	28.88
36	37.35	34.93	37.46	34.88	38.38	34.88
42	43.35	40.93	43.46	40.88	44.38	40.88

Technical Specifications

LOAD RATINGS
1.5 Safety factor. All tray sections will support an additional 200 Lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS NEMA	CSA	UL
AU0-4 AH0-4		Ix = 1.67 in⁴ Sx = 0.774 in³ Area = 0.742 in²	8B	N/A	UL Cross Sectional Area : 0.60 in²
AU1-4 AH1-4		Ix = 2.19 in⁴ Sx = 1.05 in³ Area = 0.906 in²	12A, 8C	C1	UL Cross Sectional Area : 0.60 in²
AU2-4 AH2-4		Ix = 2.51 in⁴ Sx = 1.17 in³ Area = 0.986 in²	12B	D1/3m	UL Cross Sectional Area : 0.60 in²

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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T&B® Cable Tray Aluminum

4" Straight Sections – Series 3-4, 4-4, 5-4 – Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AU5-4)-24-L09-144

Material	Fitting Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	**U** • U-Beam	**3** • Series 3	**4** • (4")	**06** • (6")	**L06** • 6" rung spacing	**144** • (12ft)
	H • H-Beam	**4** • Series 4		**09** • (9")	**L09** • 9" rung spacing	**288** • (24ft)
		5 • Series 5		**12** • (12")	**L12** • 12" rung spacing	**3** • (3 meters)
				18 • (18")	* **L18*** • 18" rung spacing	**6** • (6 meters)
				24 • (24")	**V** • Ventilated	
				30 • (30")	**S** • Solid Trough	
				36 • (36")		
				* **42** • (42")		

* **Only upon request** (consult factory for loading).

H

T&B® Cable Tray

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR
For lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For FITTINGS consult pages H42 to H69.

SERIES		SUPPORT SPAN (Feet) 6	8	10	12	14	16	18	20
AU3-4 / AH3-4	Load (lbs./ft.)	522	294	188	131	96	73	58	47
	Deflection (in.)	0.477	0.849	1.326	1.909	2.599	3.395	4.296	5.304
	Deflection Factor	0.001	0.003	0.007	0.015	0.027	0.046	0.074	0.113
AU4-4 / AH4-4	Load (lbs./ft.)	589	331	212	147	108	83	65	53
	Deflection (in.)	0.441	0.785	1.226	1.766	2.403	3.139	3.973	4.905
	Deflection Factor	0.001	0.002	0.006	0.012	0.022	0.038	0.061	0.092
AU5-4 / AH5-4	Load (lbs./ft.)	867	488	312	217	159	122	96	78
	Deflection (in.)	0.505	0.898	1.403	2.021	2.751	3.593	4.547	5.614
	Deflection Factor	0.001	0.002	0.004	0.009	0.017	0.029	0.047	0.072

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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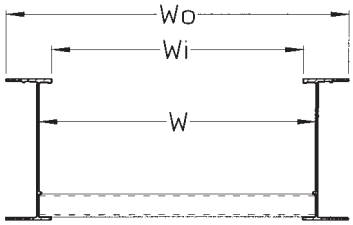
T&B® Cable Tray Aluminum

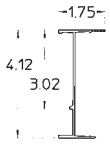
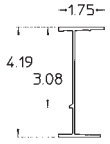
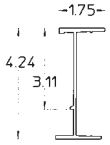
4" Straight Sections – Series 3-4, 4-4, 5-4 – Ladder, Ventilated and Solid Trough



W (in.)	AU3-4 / AH3-4		AU4-4 / AH4-4		AU5-4 / AH5-4	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.38	4.88	8.41	4.91	8.38	4.88
9	11.38	7.88	11.41	7.91	11.38	7.88
12	14.38	10.88	14.41	10.91	14.38	10.88
18	20.38	16.88	20.41	16.91	20.38	16.88
24	26.38	22.88	26.41	22.91	26.38	22.88
30	32.38	28.88	32.41	28.91	32.38	28.88
36	38.38	34.88	38.41	34.91	38.38	34.88
42	44.38	40.88	44.41	40.91	44.38	40.88

Technical Specifications

LOAD RATINGS
1.5 Safety factor. All tray sections will support an additional 200 Lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS NEMA	CSA	UL
AU3-4 **AH3-4**		Ix = 3.19 in⁴ Sx = 1.41 in³ Area = 1.22 in²	**12C**, 16A	**D1/6m**	UL Cross Sectional Area : 1.00 in²
AU4-4 **AH4-4**		Ix = 3.89 in⁴ Sx = 1.75 in³ Area = 1.40 in²	**20A**, 16B	**E/3m**	UL Cross Sectional Area : 1.00 in²
AU5-4 **AH5-4**		Ix = 5.00 in⁴ Sx = 2.24 in³ Area = 1.76 in²	**20B**, 16C	**E/6m**	UL Cross Sectional Area : 1.50 in²

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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T&B® Cable Tray Aluminum

5" Straight Sections – Series 2-5, 3-5, 4-5 – Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AU2-5)-24-L09-144

Material	Fitting Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	**U** • U-Beam	**2** • Series 2	**5** • (5")	**06** • (6")	**L06** • 6" rung spacing	**144** • (12ft)
	H • H-Beam	**3** • Series 3		**09** • (9")	**L09** • 9" rung spacing	**288** • (24ft)
		4 • Series 4		**12** • (12")	**L12** • 12" rung spacing	**3** • (3 meters)
				18 • (18")	* **L18*** • 18" rung spacing	**6** • (6 meters)
				24 • (24")	**V** • Ventilated	
				30 • (30")	**S** • Solid Trough	
				36 • (36")		
				* **42** • (42")		

* **Only upon request** (consult factory for loading).

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR
For lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For FITTINGS consult pages H42 to H69.

SERIES		SUPPORT SPAN (Feet) 6	8	10	12	14	16	18	20
AU2-5	Load (lbs./ft.)	511	288	184	128	94	72	57	46
	Deflection (in.)	0.328	0.584	0.912	1.313	1.787	2.334	2.955	3.648
AH2-5	Deflection Factor	0.001	0.002	0.005	0.010	0.019	0.032	0.052	0.079
AU3-5	Load (lbs./ft.)	600	338	216	150	110	84	67	54
	Deflection (in.)	0.313	0.557	0.870	1.253	1.706	2.228	2.820	3.481
AH3-5	Deflection Factor	0.001	0.002	0.004	0.008	0.015	0.026	0.042	0.064
AU4-5	Load (lbs./ft.)	844	475	304	211	155	119	94	76
	Deflection (in.)	0.337	0.599	0.936	1.348	1.834	2.396	3.033	3.744
AH4-5	Deflection Factor	0.004	0.001	0.003	0.006	0.012	0.020	0.032	0.049

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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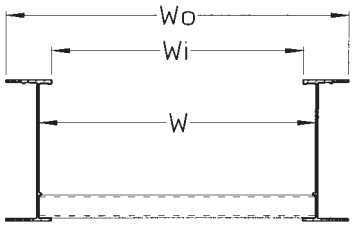
T&B® Cable Tray Aluminum

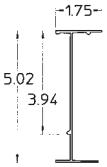
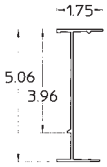
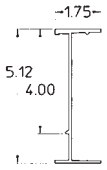
5" Straight Sections – Series 2-5, 3-5, 4-5 – Ladder, Ventilated and Solid Trough



W (in.)	AU2-5 / AH2-5		AU3-5 / AH3-5		AU4-5 / AH4-5	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.39	4.89	8.43	4.93	8.45	4.95
9	11.39	7.89	11.43	7.93	11.45	7.95
12	14.39	10.89	14.43	10.93	14.45	10.95
18	20.39	16.89	20.43	16.93	20.45	16.95
24	26.39	22.89	26.43	22.93	26.45	22.95
30	32.39	28.89	32.43	28.93	32.45	28.95
36	38.39	34.89	38.43	34.93	38.45	34.95
42	44.39	40.89	44.43	40.93	44.45	40.95

Technical Specifications

LOAD RATINGS
1.5 Safety factor. All tray sections will support an additional 200 Lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS NEMA	CSA	UL
AU2-5 **AH2-5**		Ix = 4.54 in⁴ Sx = 1.73 in³ Area = 1.23 in²	**12C**, 16A	**D1/6m**	UL Cross Sectional Area : 1.00 in²
AU3-5 **AH3-5**		Ix = 5.58 in⁴ Sx = 2.13 in³ Area = 1.52 in²	**20A**, 16B	**E/3m**	UL Cross Sectional Area : 1.50 in²
AU4-5 **AH4-5**		Ix = 7.31 in⁴ Sx = 2.66 in³ Area = 1.87 in²	**20B**, 16C	**E/6m**	UL Cross Sectional Area : 1.50 in²

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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T&B® Cable Tray Aluminum

6" Straight Sections – Series 1-6, 2-6, 3-6 – Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AU2-6)-24-L09-144

Material	Fitting Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	**U** • U-Beam	**1** • Series 1	**6** • (6")	**06** • (6")	**L06** • 6" rung spacing	**144** • (12ft)
	H • H-Beam	**2** • Series 2		**09** • (9")	**L09** • 9" rung spacing	**288** • (24ft)
		3 • Series 3		**12** • (12")	**L12** • 12" rung spacing	**3** • (3 meters)
				18 • (18")	* **L18*** • 18" rung spacing	**6** • (6 meters)
				24 • (24")	**V** • Ventilated	
				30 • (30")	**S** • Solid Trough	
				36 • (36")		
				* **42** • (42")		

* **Only upon request** (consult factory for loading).

H

T&B® Cable Tray

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR
For lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For FITTINGS consult pages H42 to H69.

SERIES		SUPPORT SPAN (Feet) 6	8	10	12	14	16	18	20
AU1-6 / AH1-6	Load (lbs./ft.)	511	288	184	128	94	72	57	46
	Deflection (in.)	0.191	0.340	0.531	0.764	1.040	1.359	1.720	2.132
	Deflection Factor	0.0004	0.001	0.003	0.006	0.011	0.019	0.030	0.046
AU2-6 / AH2-6	Load (lbs./ft.)	589	331	212	147	108	83	65	53
	Deflection (in.)	0.203	0.360	0.563	0.811	1.104	1.442	1.825	2.253
	Deflection Factor	0.0003	0.001	0.003	0.006	0.010	0.017	0.028	0.043
AU3-6 / AH3-6	Load (lbs./ft.)	889	500	320	222	163	125	99	80
	Deflection (in.)	0.199	0.353	0.552	0.794	1.081	1.412	1.788	2.207
	Deflection Factor	0.0002	0.001	0.002	0.004	0.007	0.011	0.018	0.028

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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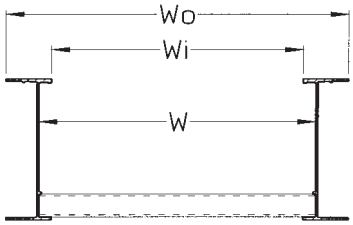
T&B® Cable Tray Aluminum

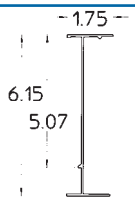
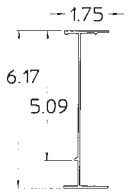
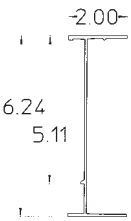
6" Straight Sections – Series 1-6, 2-6, 3-6 – Ladder, Ventilated and Solid Trough



W (in.)	AU1-6 / AH1-6		AU2-6 / AH2-6		AU3-6 / AH3-6	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.37	4.87	8.38	4.88	8.89	4.89
9	11.37	7.87	11.38	7.88	11.89	7.89
12	14.37	10.87	14.38	10.88	14.89	10.89
18	20.37	16.87	20.38	16.88	20.89	16.89
24	26.37	22.87	26.38	22.88	26.89	22.89
30	32.37	28.87	32.38	28.88	32.89	28.89
36	38.37	34.87	38.38	34.88	38.89	34.89
42	44.37	40.87	44.38	40.88	44.89	40.89

Technical Specifications

LOAD RATINGS
1.5 Safety factor. All tray sections will support an additional 200 Lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS NEMA	CSA	UL
AU1-6 **AH1-6**		Ix = 7.80 in⁴ Sx = 2.36 in³ Area = 1.43 in²	**12C**, 16A	**D1/6m**	UL Cross Sectional Area : 1.00 in²
AU2-6 **AH2-6**		Ix = 8.47 in⁴ Sx = 2.59 in³ Area = 1.55 in²	**20A**, 16B	**E/3m**	UL Cross Sectional Area : 1.00 in²
AU3-6 **AH3-6**		Ix = 13.05 in⁴ Sx = 3.88 in³ Area = 2.12 in²	**20B**, 16C	**E/6m**	UL Cross Sectional Area : 2.00 in²

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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T&B® Cable Tray Aluminum

6" Straight Sections – Series 4-6, 5-6, 6-6 – Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AU5-6)-24-L09-144

Material	Fitting Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	**U** • U-Beam	**4** • Series 4	**6** • (6")	**06** • (6")	**L06** • 6" rung spacing	**144** • (12ft)
	H • H-Beam	**5** • Series 5		**09** • (9")	**L09** • 9" rung spacing	**288** • (24ft)
		6 • Series 6		**12** • (12")	**L12** • 12" rung spacing	**3** • (3 meters)
				18 • (18")	* **L18*** • 18" rung spacing	**6** • (6 meters)
				24 • (24")	**V** • Ventilated	
				30 • (30")	**S** • Solid Trough	
				36 • (36")		
				* **42** • (42")		

* **Only upon request** (consult factory for loading).

H

T&B® Cable Tray

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR
For lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For FITTINGS consult pages H42 to H69.

SERIES		SUPPORT SPAN (Feet) 6	8	10	12	14	16	18	20
AU4-6 / AH4-6	Load (lbs./ft.)	1133	638	408	283	208	159	126	102
	Deflection (in.)	0.238	0.424	0.662	0.954	1.298	1.696	2.146	2.649
	Deflection Factor	0.0002	0.001	0.002	0.003	0.006	0.011	0.017	0.026
AU5-6 / AH5-6	Load (lbs./ft.)	1334	756	484	336	247	189	149	121
	Deflection (in.)	0.249	0.443	0.693	0.997	1.358	1.773	2.244	2.771
	Deflection Factor	0.0002	0.001	0.002	0.003	0.005	0.009	0.015	0.023
AU6-6 / AH6-6	Load (lbs./ft.)	1889	1063	680	472	347	266	210	170
	Deflection (in.)	0.315	0.560	0.875	1.260	1.715	2.240	2.835	3.500
	Deflection Factor	0.0002	0.001	0.001	0.003	0.005	0.008	0.014	0.021

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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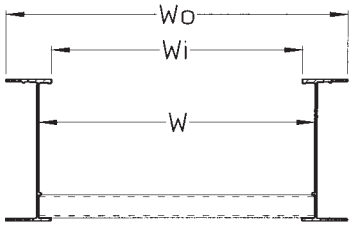
T&B® Cable Tray Aluminum

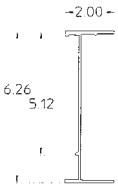
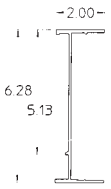
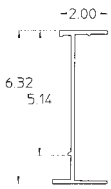
6" Straight Sections – Series 4-6, 5-6, 6-6 – Ladder, Ventilated and Solid Trough



W (in.)	AU4-6 / AH4-6		AU5-6 / AH5-6		AU6-6 / AH6-6	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.90	4.90	8.93	4.93	9.01	5.01
9	11.90	7.90	11.93	7.93	12.01	8.01
12	14.90	10.90	14.93	10.93	15.01	11.01
18	20.90	16.90	20.93	16.93	21.01	17.01
24	26.90	22.90	26.93	22.93	27.01	23.01
30	32.90	28.90	32.93	28.93	33.01	29.01
36	38.90	34.90	38.93	34.93	39.01	35.01
42	44.90	40.90	44.93	40.93	45.01	41.01

Technical Specifications

LOAD RATINGS
1.5 Safety factor. All tray sections will support an additional 200 Lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS NEMA	CSA	UL
AU4-6 **AH4-6**		Ix = 13.86 in⁴ Sx = 4.07 in³ Area = 2.32 in²	**20C**	**N/A**	UL Cross Sectional Area : 2.00 in²
AU5-6 **AH5-6**		Ix = 15.63 in⁴ Sx = 4.66 in³ Area = 2.68 in²	**20C**	**N/A**	UL Cross Sectional Area : 2.00 in²
AU6-6 **AH6-6**		Ix = 18.84 in⁴ Sx = 5.51 in³ Area = 3.25 in²	**20C**	**N/A**	UL Cross Sectional Area : 2.00 in²

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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T&B® Cable Tray Aluminum

7" Straight Sections – Series 2-7, 3-7 – Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AU2-7)-24-L09-144

Material	Fitting Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	**U** • U-Beam	**2** • Series 2	**7** • (7")	**06** • (6")	**L06** • 6" rung spacing	**144** • (12ft)
	H • H-Beam	**3** • Series 3		**09** • (9")	**L09** • 9" rung spacing	**288** • (24ft)
				12 • (12")	**L12** • 12" rung spacing	**3** • (3 meters)
				18 • (18")	* **L18*** • 18" rung spacing	**6** • (6 meters)
				24 • (24")	**V** • Ventilated	
				30 • (30")	**S** • Solid Trough	
				36 • (36")		
				* **42** • (42")		

* **Only upon request** (consult factory for loading).

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR
For lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For FITTINGS consult pages H42 to H69.

SERIES		SUPPORT SPAN (Feet) 6	8	10	12	14	16	18	20
AU2-7 / AH2-7	Load (lbs./ft.)	844	475	304	211	155	119	94	76
	Deflection (in.)	0.149	0.265	0.415	0.597	0.813	1.061	1.343	1.658
	Deflection Factor	0.0002	0.001	0.001	0.003	0.005	0.009	0.014	0.022
AU3-7 / AH3-7	Load (lbs./ft.)	1456	819	524	364	267	205	162	131
	Deflection (in.)	0.168	0.298	0.466	0.671	0.913	1.192	1.509	1.863
	Deflection Factor	0.0001	0.0004	0.001	0.002	0.003	0.006	0.009	0.014

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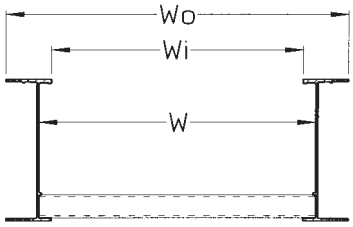
T&B® Cable Tray Aluminum

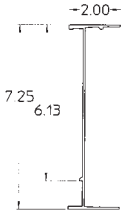
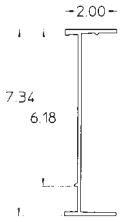
7" Straight Sections – Series 2-7, 3-7 – Ladder, Ventilated and Solid Trough



W (in.)	AU2-7 / AH2-7		AU3-7 / AH3-7	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.90	4.90	9.00	5.00
9	11.90	7.90	12.00	8.00
12	14.90	10.90	15.00	11.00
18	20.90	16.90	21.00	17.00
24	26.90	22.90	27.00	23.00
30	32.90	28.90	33.00	29.00
36	38.90	34.90	39.00	35.00
42	44.90	40.90	45.00	41.00

Technical Specifications

LOAD RATINGS
1.5 Safety factor. All tray sections will support an additional 200 Lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS NEMA	CSA	UL
AU2-7 **AH2-7**		Ix = 16.50 in⁴ Sx = 4.06 in³ Area = 2.14 in²	**20B**, 16C	**E/6m**	UL Cross Sectional Area : 2.00 in²
AU3-7 **AH3-7**		Ix = 25.32 in⁴ Sx = 6.35 in³ Area = 3.30 in²	**20C**	**N/A**	UL Cross Sectional Area : 2.00 in²

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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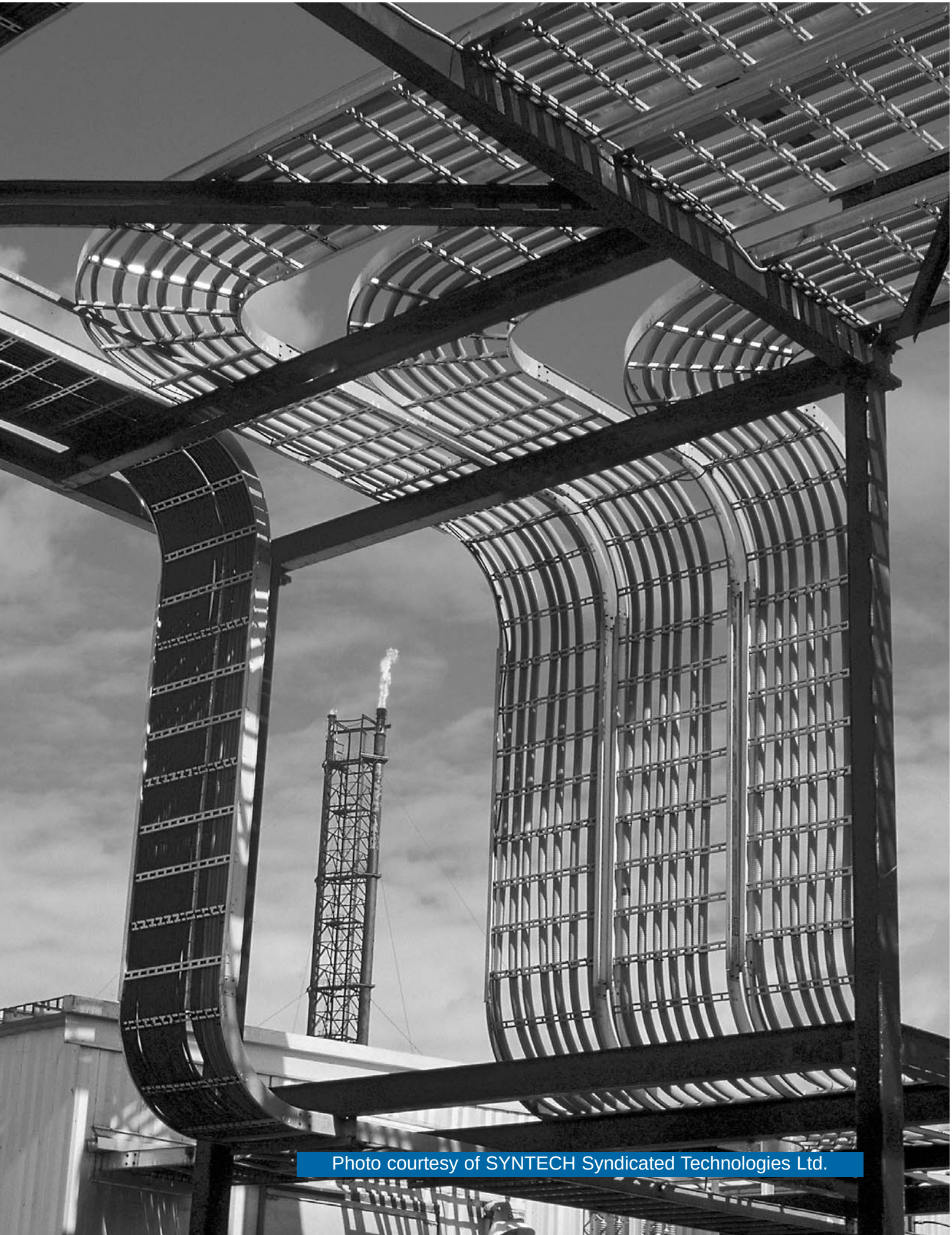

Photo courtesy of SYNTECH Syndicated Technologies Ltd.

T&B® Cable Tray Aluminum

Fitting – Number Selection

Fittings in a cable tray system are required to change cable routing direction and to join straight sections and other fittings.

This step of the cable tray selection process requires that the specifier chooses between two distinct styles U and H.

NOTE: The **U-Style** and **H-Style** systems are not interchangeable. Once you have selected a system, you must be consistent.

U-Style Fitting

A U-shaped extrusion forms the fitting siderail.

U-Style fittings utilize a 4" splice plate and the fittings do not have tangents at the extremities.

This style offers maximum quality versus cost ratios of the installation.

H-Style Fitting

An H-shaped extrusion forms the fitting siderail.

H-Style fittings utilize a 7" splice plate and the fittings have 3" tangents at the extremities.

This style offers enhanced aesthetics to the end-user.

Fitting Number Selection

(AUF-6)-24-L-VO60-12

Fitting Material	Fitting Style	Siderail Depth	Width	Bottom Type	Fitting Type	Angle **	Radius †
A • Aluminum	**U** • U-Beam	**4** • (4")	**06** • (6")	* **L** • Ladder	**HB** • Horizontal Bend	**30** • (30°)	**12** • (12")
	H • H-Beam	**5** • (5")	**09** • (9")	*** **V** • Ventilated	**HT** • Horizontal Tee	**45** • (45°)	**24** • (24")
		6 • (6")	**12** • (12")	**** **S** • Solid Trough	**HX** • Horizontal Cross	**60** • (60°)	**36** • (36")
		7 • (7")	**18** • (18")		**VI** • Vertical Inside Bend	**90** • (90°)	**48** • (48")
			24 • (24")		**VO** • Vertical Outside Bend		
			30 • (30")		**VTD** • Vertical Tee Down		
			36 • (36")		**VTU** • Vertical Tee Up		
			42 • (42")		**HYR** • Horizontal Wye Right		
					HYL • Horizontal Wye Left		
					RT • Horizontal Reducing Tee		
					ET • Horizontal Expanding Tee		
					EX • Horiz. Expand Cross		
					HLR • Horizontal Left Reducer		
					HSR • Horizontal Straight Reducer		
					HRR • Horizontal Right Reducer		
					CS • Cable Support Fitting		

** Angle is required for HB, VI, VO only.

† Radius is not required for the following Fitting Types: **HYR, HYL, HLR, HRR, HSR**

* Manufactured with 9" rung spacing measured at the center line of fitting.

*** Manufactured with 4" rung spacing measured at the center line of fitting.

**** Manufactured with flat sheet inserted under rungs with 9" rung spacing measured at the center line of fitting.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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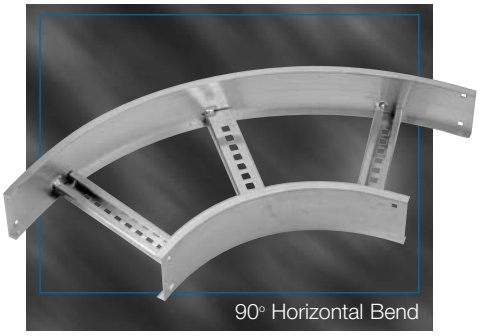
T&B® Cable Tray Aluminum

Horizontal Fittings – Selection Guide

Horizontal Bends

U-Style



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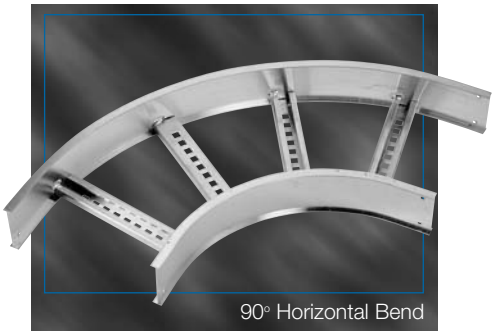
H-Style



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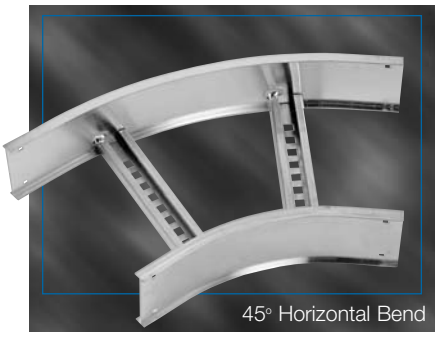

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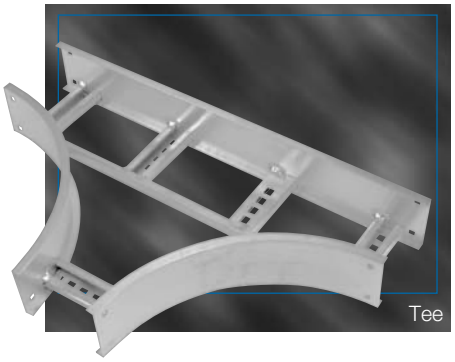
T&B® Cable Tray Aluminum

Horizontal Fittings – Selection Guide

Horizontal Tees, Crosses

U-Style



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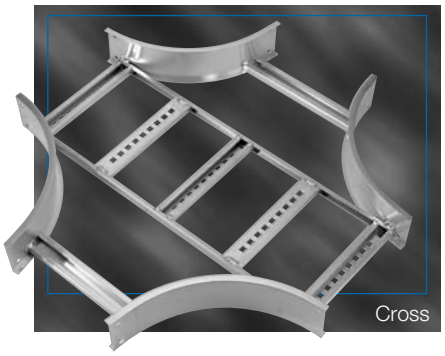

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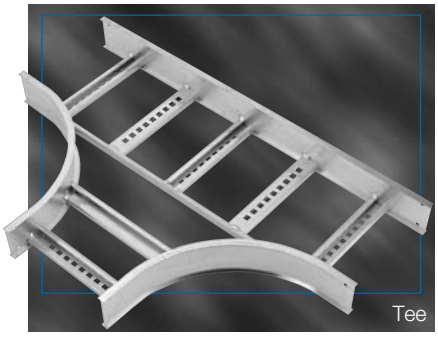
H-Style



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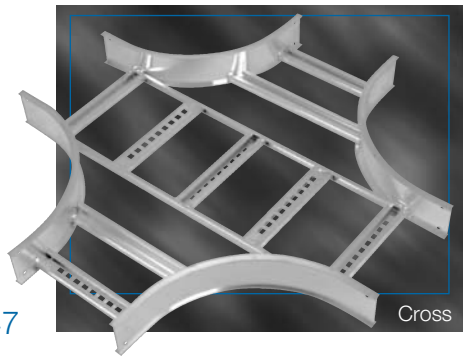

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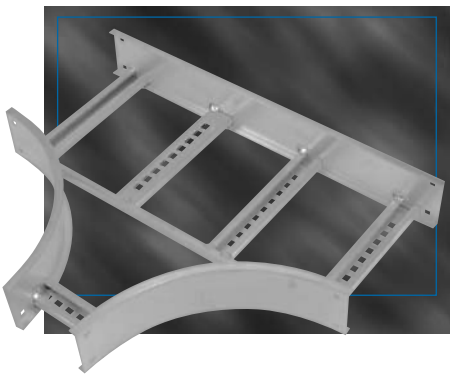
Horizontal Reducing Tees

U-Beam



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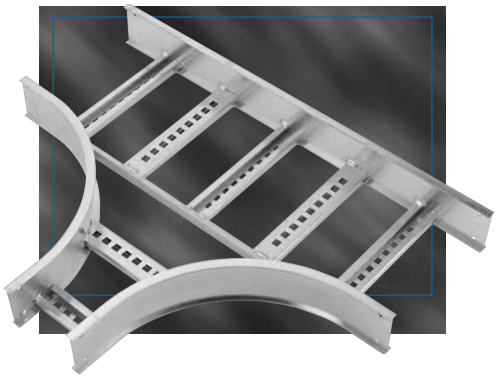
H-Style



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T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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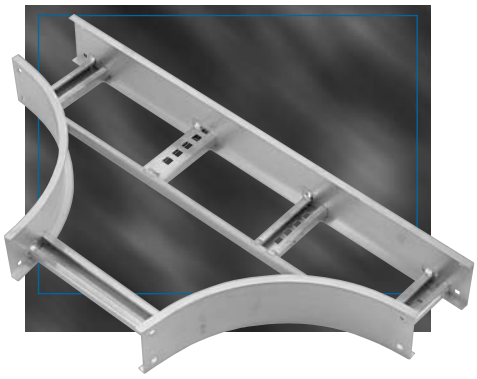
T&B® Cable Tray Aluminum

Horizontal Fittings – Selection Guide

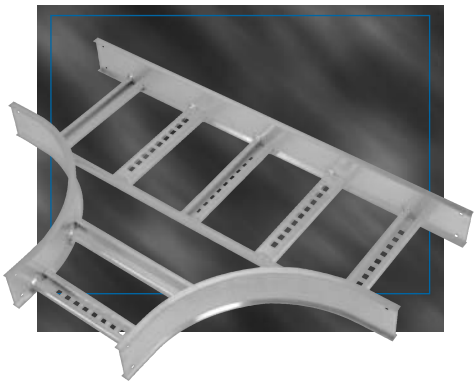
Horizontal Expanding Tees

U-Style



page H50

H-Style



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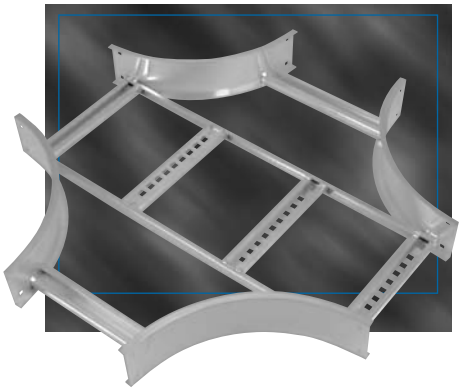
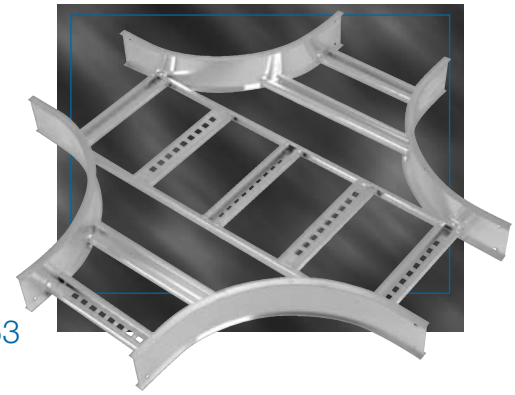
Horizontal Expanding / Reducing Crosses

U-Style



page H52

H-Style



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T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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Horizontal Fittings – Selection Guide

Reducers

U-Style

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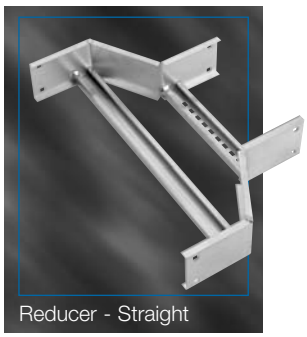
Offset Reducer - Right


Reducer - Straight

Offset Reducer - Left

H-Style

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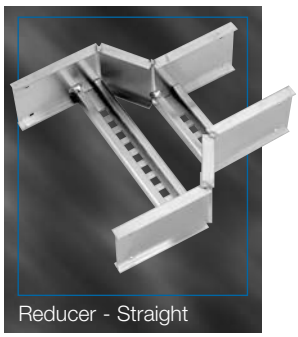
Offset Reducer - Right


Reducer - Straight

Offset Reducer - Left

Horizontal Wyes

U-Style

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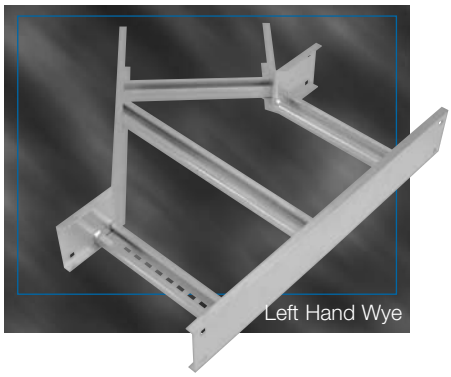
Left Hand Wye

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Right Hand Wye

H-Style

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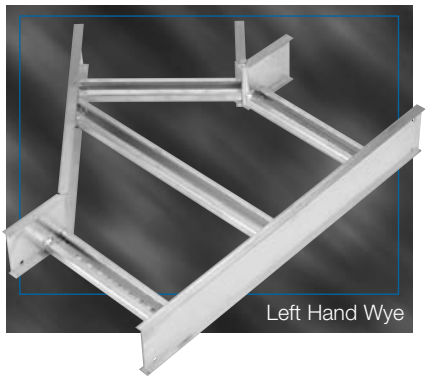
Left Hand Wye

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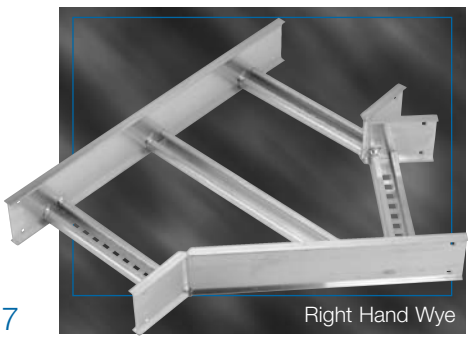
Right Hand Wye

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T&B® Cable Tray Aluminum

Vertical Fittings – Selection Guide

Vertical Bends

U-Style

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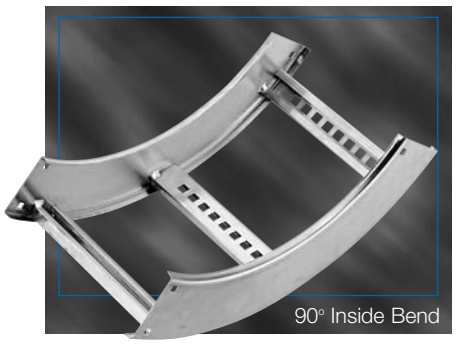

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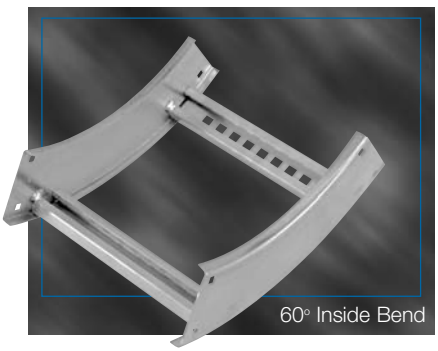

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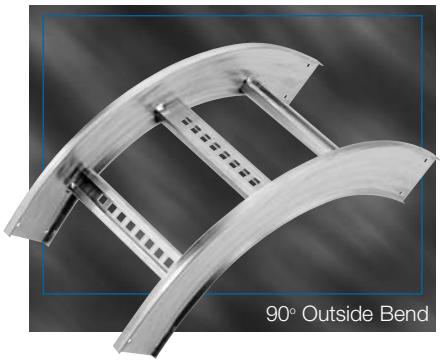
H-Style



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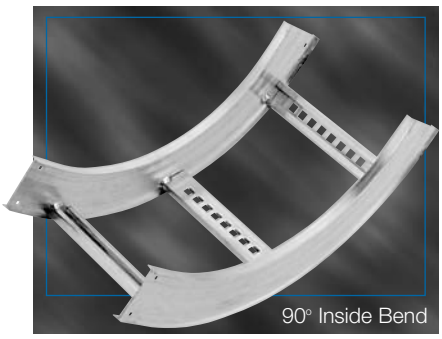

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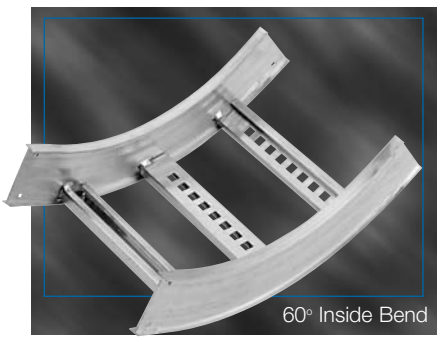

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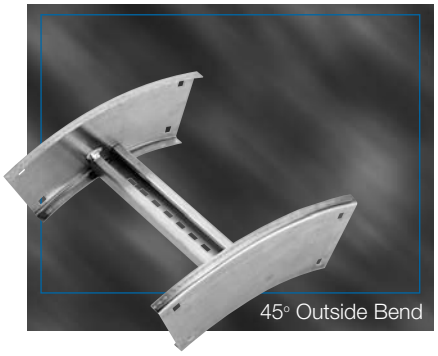
Vertical Bends (Cont'd.)

U-Style



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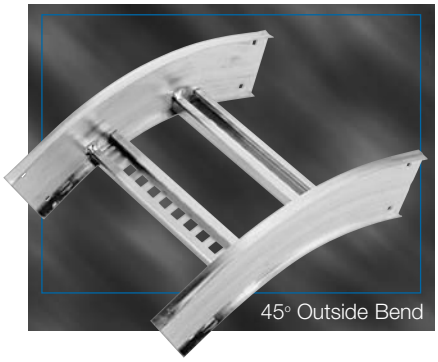
H-Style



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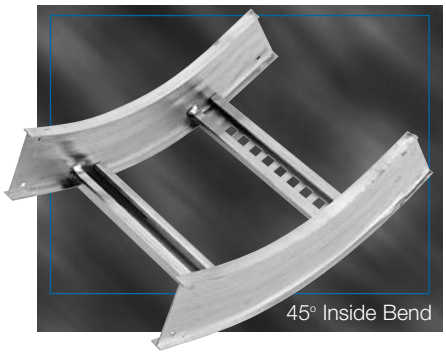

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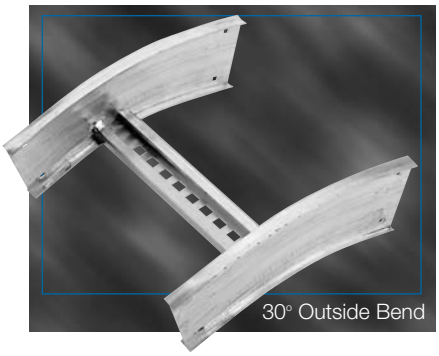

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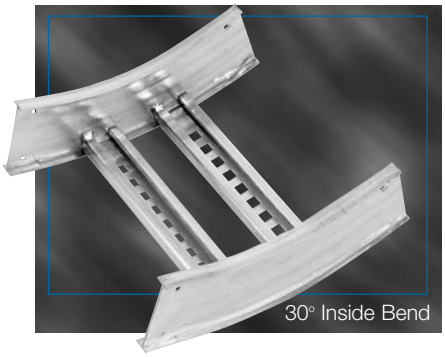

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T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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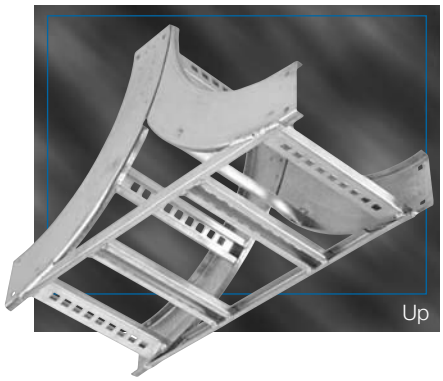
T&B® Cable Tray Aluminum

Vertical Fittings – Selection Guide

Vertical Tees Up / Down

U-Style



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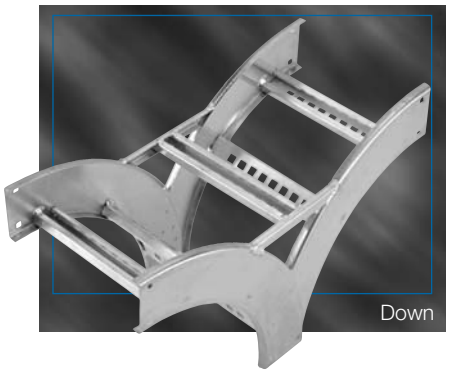

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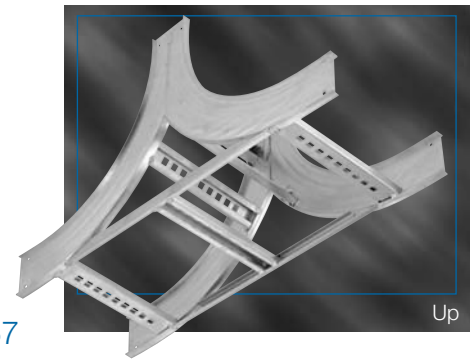
H-Style



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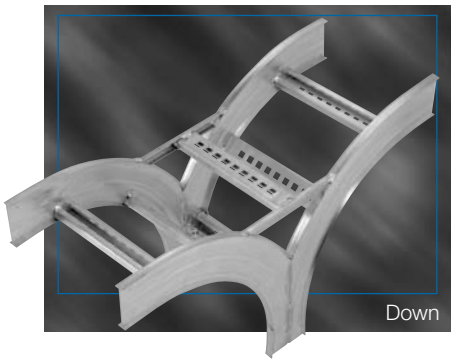

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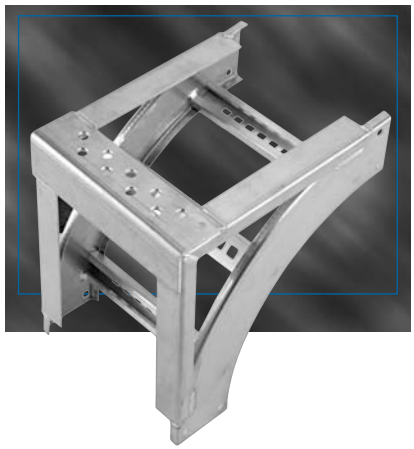
Cable Supports

U-Style



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H-Style

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T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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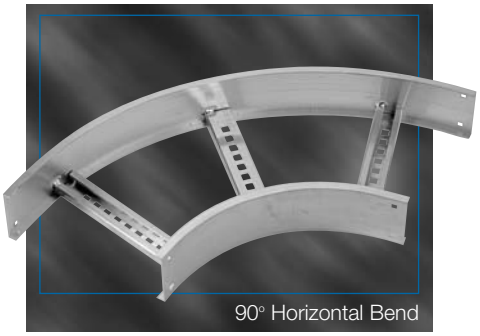
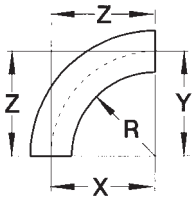
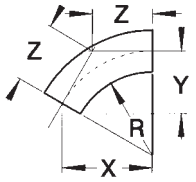
T&B® Cable Tray Aluminum

U-Style Fittings– Horizontal Bends – 90° / 60°







Part Numbering System

AUF-4-24-L-HB60-12

Fitting Material and Siderail | Width | Fitting Type | Radius | Siderail Depth | Bottom Style | Angle

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**
Angle: **90°, 60°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4”– 7”**

Technical Specifications

90° Horizontal Bend — U-Style

Radius R	Width	Catalogue Number	Dimensions X	Y	Z
12	6	AUF(†)-06-(*)-HB90-12	15	15	15
	9	AUF(†)-09-(*)-HB90-12	16-1/2	16-1/2	16-1/2
	12	AUF(†)-12-(*)-HB90-12	18	18	18
	18	AUF(†)-18-(*)-HB90-12	21	21	21
	24	AUF(†)-24-(*)-HB90-12	24	24	24
	30	AUF(†)-30-(*)-HB90-12	27	27	27
	36	AUF(†)-36-(*)-HB90-12	30	30	30
	42	AUF(†)-42-(*)-HB90-12	33	33	33
24	6	AUF(†)-06-(*)-HB90-24	27	27	17
	9	AUF(†)-09-(*)-HB90-24	28-1/2	28-1/2	28-1/2
	12	AUF(†)-12-(*)-HB90-24	30	30	30
	18	AUF(†)-18-(*)-HB90-24	33	33	33
	24	AUF(†)-24-(*)-HB90-24	36	36	36
	30	AUF(†)-30-(*)-HB90-24	39	39	39
	36	AUF(†)-36-(*)-HB90-24	42	42	42
	42	AUF(†)-42-(*)-HB90-24	45	45	45
36	6	AUF(†)-06-(*)-HB90-36	39	39	39
	9	AUF(†)-09-(*)-HB90-36	40-1/2	40-1/2	40-1/2
	12	AUF(†)-12-(*)-HB90-36	42	42	42
	18	AUF(†)-18-(*)-HB90-36	45	45	45
	24	AUF(†)-24-(*)-HB90-36	48	48	48
	30	AUF(†)-30-(*)-HB90-36	51	51	51
	36	AUF(†)-36-(*)-HB90-36	54	54	54
	42	AUF(†)-42-(*)-HB90-36	57	57	57
48	6	AUF(†)-06-(*)-HB90-48	51	51	51
	9	AUF(†)-09-(*)-HB90-48	52-1/2	52-1/2	52-1/2
	12	AUF(†)-12-(*)-HB90-48	54	54	54
	18	AUF(†)-18-(*)-HB90-48	57	57	57
	24	AUF(†)-24-(*)-HB90-48	60	60	60
	30	AUF(†)-30-(*)-HB90-48	63	63	63
	36	AUF(†)-36-(*)-HB90-48	66	66	66
	42	AUF(†)-42-(*)-HB90-48	69	69	69

60° Horizontal Bend — U-Style

Radius R	Width	Catalogue Number	Dimensions X	Y	Z
12	6	AUF(†)-06-(*)-HB60-12	13	7-1/2	8-11/16
	9	AUF(†)-09-(*)-HB60-12	14-5/16	8-1/4	9-1/2
	12	AUF(†)-12-(*)-HB60-12	15-9/16	9	10-3/8
	18	AUF(†)-18-(*)-HB60-12	18-3/16	10-1/2	12-1/8
	24	AUF(†)-24-(*)-HB60-12	20-13/16	12	13-7/8
	30	AUF(†)-30-(*)-HB60-12	23-3/8	13-1/2	15-9/16
	36	AUF(†)-36-(*)-HB60-12	26	15	17-5/16
	42	AUF(†)-42-(*)-HB60-12	28-9/16	16-1/2	19-1/16
24	6	AUF(†)-06-(*)-HB60-24	23-3/8	13-1/2	15-9/16
	9	AUF(†)-09-(*)-HB60-24	24-11/16	14-1/4	16-7/16
	12	AUF(†)-12-(*)-HB60-24	26	15	17-5/16
	18	AUF(†)-18-(*)-HB60-24	28-9/16	16-1/2	19-1/16
	24	AUF(†)-24-(*)-HB60-24	31-3/16	18	20-13/16
	30	AUF(†)-30-(*)-HB60-24	33-3/4	19-1/2	22-1/2
	36	AUF(†)-36-(*)-HB60-24	36-3/8	21	24-1/4
	42	AUF(†)-42-(*)-HB60-24	39	22-1/2	26
36	6	AUF(†)-06-(*)-HB60-36	33-3/4	19-1/2	22-1/2
	9	AUF(†)-09-(*)-HB60-36	35-1/16	20-1/4	23-3/8
	12	AUF(†)-12-(*)-HB60-36	36-3/8	21	24-1/4
	18	AUF(†)-18-(*)-HB60-36	39	22-1/2	26
	24	AUF(†)-24-(*)-HB60-36	41-9/16	24	27-11/16
	30	AUF(†)-30-(*)-HB60-36	44-3/16	25-1/2	29-7/16
	36	AUF(†)-36-(*)-HB60-36	46-3/4	27	31-3/16
	42	AUF(†)-42-(*)-HB60-36	49-3/8	28-1/2	32-15/16
48	6	AUF(†)-06-(*)-HB60-48	44-3/16	25-1/2	29-7/16
	9	AUF(†)-09-(*)-HB60-48	45-7/16	26-1/4	30-5/16
	12	AUF(†)-12-(*)-HB60-48	46-3/4	27	31-3/16
	18	AUF(†)-18-(*)-HB60-48	49-3/8	28-1/2	32-15/16
	24	AUF(†)-24-(*)-HB60-48	51-15/16	30	34-5/8
	30	AUF(†)-30-(*)-HB60-48	54-9/16	31-1/2	36-3/8
	36	AUF(†)-36-(*)-HB60-48	57-3/16	33	38-1/8
	42	AUF(†)-42-(*)-HB60-48	59-3/4	34-1/2	39-13/16

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don’t mix H and U style components on the same job.)

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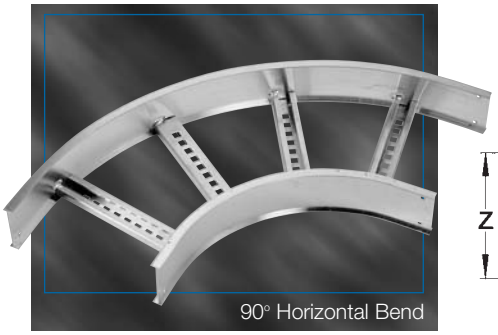
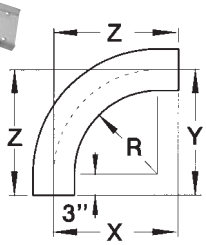
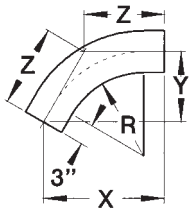
T&B® Cable Tray Aluminum

H-Style Fittings – Horizontal Bends – 90° / 60°







Part Numbering System

AHF-4-24-L-HB60-12

Fitting Material and Siderail | Width | Fitting Type | Radius | Siderail Depth | Bottom Style | Angle

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**
Angle: **90°, 60°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"– 7"**

Technical Specifications

90° Horizontal Bend — H-Style

Radius R	Width	Catalogue Number	Dimensions X	Y	Z
12	6	AHF(†)-06-(*)-HB90-12	18	18	18
	9	AHF(†)-09-(*)-HB90-12	19-1/2	19-1/2	19-1/2
	12	AHF(†)-12-(*)-HB90-12	21	21	21
	18	AHF(†)-18-(*)-HB90-12	24	24	24
	24	AHF(†)-24-(*)-HB90-12	27	27	27
	30	AHF(†)-30-(*)-HB90-12	30	30	30
	36	AHF(†)-36-(*)-HB90-12	33	33	33
	42	AHF(†)-42-(*)-HB90-12	36	36	36
24	6	AHF(†)-06-(*)-HB90-24	30	30	30
	9	AHF(†)-09-(*)-HB90-24	31-1/2	31-1/2	31-1/2
	12	AHF(†)-12-(*)-HB90-24	33	33	33
	18	AHF(†)-18-(*)-HB90-24	36	36	36
	24	AHF(†)-24-(*)-HB90-24	39	39	39
	30	AHF(†)-30-(*)-HB90-24	42	42	42
	36	AHF(†)-36-(*)-HB90-24	45	45	45
	42	AHF(†)-42-(*)-HB90-24	48	48	48
36	6	AHF(†)-06-(*)-HB90-36	42	42	42
	9	AHF(†)-09-(*)-HB90-36	43-1/2	43-1/2	43-1/2
	12	AHF(†)-12-(*)-HB90-36	45	45	45
	18	AHF(†)-18-(*)-HB90-36	48	48	48
	24	AHF(†)-24-(*)-HB90-36	51	51	51
	30	AHF(†)-30-(*)-HB90-36	54	54	54
	36	AHF(†)-36-(*)-HB90-36	57	57	57
	42	AHF(†)-42-(*)-HB90-36	60	60	60
48	6	AHF(†)-06-(*)-HB90-48	54	54	54
	9	AHF(†)-09-(*)-HB90-48	55-1/2	55-1/2	55-1/2
	12	AHF(†)-12-(*)-HB90-48	57	57	57
	18	AHF(†)-18-(*)-HB90-48	60	60	60
	24	AHF(†)-24-(*)-HB90-48	63	63	63
	30	AHF(†)-30-(*)-HB90-48	66	66	66
	36	AHF(†)-36-(*)-HB90-48	69	69	69
	42	AHF(†)-42-(*)-HB90-48	72	72	72

60° Horizontal Bend — H-Style

Radius R	Width	Catalogue Number	Dimensions X	Y	Z
12	6	AHF(†)-06-(*)-HB60-12	17-1/2	10-1/8	11-11/16
	9	AHF(†)-09-(*)-HB60-12	18-13/16	10-7/8	12-1/2
	12	AHF(†)-12-(*)-HB60-12	20-1/16	11-5/8	13-3/8
	18	AHF(†)-18-(*)-HB60-12	22-11/16	13-1/8	15-1/8
	24	AHF(†)-24-(*)-HB60-12	25-5/16	14-5/8	16-7/8
	30	AHF(†)-30-(*)-HB60-12	27-7/8	16-1/8	18-9/16
	36	AHF(†)-36-(*)-HB60-12	30-1/2	17-5/8	20-5/16
	42	AHF(†)-42-(*)-HB60-12	33-1/16	19-1/8	22-1/16
24	6	AHF(†)-06-(*)-HB60-24	27-7/8	16-1/8	18-9/16
	9	AHF(†)-09-(*)-HB60-24	29-3/16	16-7/8	19-7/16
	12	AHF(†)-12-(*)-HB60-24	30-1/2	17-5/8	20-5/16
	18	AHF(†)-18-(*)-HB60-24	33-1/16	19-1/8	22-1/16
	24	AHF(†)-24-(*)-HB60-24	35-11/16	20-5/8	23-13/16
	30	AHF(†)-30-(*)-HB60-24	38-1/4	22-1/8	25-1/2
	36	AHF(†)-36-(*)-HB60-24	40-7/8	23-5/8	27-1/4
	42	AHF(†)-42-(*)-HB60-24	43-1/2	25-1/8	29
36	6	AHF(†)-06-(*)-HB60-36	38-1/4	22-1/8	25-1/2
	9	AHF(†)-09-(*)-HB60-36	39-9/16	22-7/8	26-3/8
	12	AHF(†)-12-(*)-HB60-36	40-7/8	23-5/8	27-1/4
	18	AHF(†)-18-(*)-HB60-36	43-1/2	25-1/8	29
	24	AHF(†)-24-(*)-HB60-36	46-1/16	26-5/8	30-11/16
	30	AHF(†)-30-(*)-HB60-36	48-11/16	28-1/8	32-7/16
	36	AHF(†)-36-(*)-HB60-36	51-1/4	29-5/8	34-3/16
	42	AHF(†)-42-(*)-HB60-36	53-7/8	31-1/8	35-15/16
48	6	AHF(†)-06-(*)-HB60-48	48-11/16	28-1/8	32-7/16
	9	AHF(†)-09-(*)-HB60-48	49-15/16	28-7/8	33-5/16
	12	AHF(†)-12-(*)-HB60-48	51-1/4	29-5/8	34-3/16
	18	AHF(†)-18-(*)-HB60-48	53-7/8	31-1/8	35-15/16
	24	AHF(†)-24-(*)-HB60-48	56-7/16	32-5/8	37-5/8
	30	AHF(†)-30-(*)-HB60-48	59-1/16	34-1/8	39-3/8
	36	AHF(†)-36-(*)-HB60-48	61-11/16	35-5/8	41-1/8
	42	AHF(†)-42-(*)-HB60-48	64-1/4	37-1/8	42-13/16

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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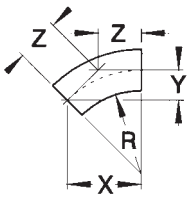
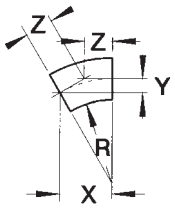
T&B® Cable Tray Aluminum

U-Style Fittings – Horizontal Bends – 45° / 30°





Part Numbering System

AUF-4-24-L-HB45-12

- AUF-4: Fitting Material and Siderail
- 24: Width
- L: Siderail Depth
- HB: Fitting Type
- 45: Bottom Style
- 12: Radius

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Angle: 45°, 30°
Radius: 12, 24, 36, 48
Bottom Styles: L– Ladder, V– Ventilated, S– Solid
Side Rail Depth: 4"– 7"

H

T&B® Cable Tray

Technical Specifications

45° Horizontal Bend — U-Style

Radius R	Width	Catalogue Number	Dimensions X	Y	Z
12	6	AUF(†)-06-(*)-(+)HB45-12	10-5/8	4-3/8	6-3/16
	9	AUF(†)-09-(*)-(+)HB45-12	11-11/16	4-13/16	6-13/16
	12	AUF(†)-12-(*)-(+)HB45-12	12-3/4	5-1/4	7-7/16
	18	AUF(†)-18-(*)-(+)HB45-12	14-7/8	6-1/8	8-11/16
	24	AUF(†)-24-(*)-(+)HB45-12	17	7	9-15/16
	30	AUF(†)-30-(*)-(+)HB45-12	19-1/16	7-15/16	11-3/16
	36	AUF(†)-36-(*)-(+)HB45-12	21-3/16	8-13/16	12-7/16
	42	AUF(†)-42-(*)-(+)HB45-12	23-5/16	9-11/16	13-11/16
24	6	AUF(†)-06-(*)-(+)HB45-24	19-1/16	7-15/16	11-3/16
	9	AUF(†)-09-(*)-(+)HB45-24	20-1/8	8-3/8	11-13/16
	12	AUF(†)-12-(*)-(+)HB45-24	21-3/16	8-13/16	12-7/16
	18	AUF(†)-18-(*)-(+)HB45-24	23-5/16	9-11/16	13-11/16
	24	AUF(†)-24-(*)-(+)HB45-24	25-7/16	10-9/16	14-15/16
	30	AUF(†)-30-(*)-(+)HB45-24	27-9/16	11-7/16	16-1/8
	36	AUF(†)-36-(*)-(+)HB45-24	29-11/16	12-5/16	17-3/8
	42	AUF(†)-42-(*)-(+)HB45-24	31-13/16	13-3/16	18-5/8
36	6	AUF(†)-06-(*)-(+)HB45-36	27-9/16	11-7/16	16-1/8
	9	AUF(†)-09-(*)-(+)HB45-36	28-5/8	11-7/8	16-3/4
	12	AUF(†)-12-(*)-(+)HB45-36	29-11/16	12-5/16	17-3/8
	18	AUF(†)-18-(*)-(+)HB45-36	31-13/16	13-3/16	18-5/8
	24	AUF(†)-24-(*)-(+)HB45-36	33-15/16	14-1/16	19-7/8
	30	AUF(†)-30-(*)-(+)HB45-36	36-1/16	14-15/16	21-1/8
	36	AUF(†)-36-(*)-(+)HB45-36	38-3/16	15-13/16	22-3/8
	42	AUF(†)-42-(*)-(+)HB45-36	40-5/16	16-11/16	23-5/8
48	6	AUF(†)-06-(*)-(+)HB45-48	36-1/16	14-15/16	21-1/8
	9	AUF(†)-09-(*)-(+)HB45-48	37-1/8	15-3/8	21-3/4
	12	AUF(†)-12-(*)-(+)HB45-48	38-3/16	15-13/16	22-3/8
	18	AUF(†)-18-(*)-(+)HB45-48	40-5/16	16-11/16	23-5/8
	24	AUF(†)-24-(*)-(+)HB45-48	42-7/16	17-9/16	24-7/8
	30	AUF(†)-30-(*)-(+)HB45-48	44-9/16	18-7/16	26-1/8
	36	AUF(†)-36-(*)-(+)HB45-48	46-11/16	19-5/16	27-5/16
	42	AUF(†)-42-(*)-(+)HB45-48	48-13/16	20-3/16	28-9/16

30° Horizontal Bend — U-Style

Radius R	Width	Catalogue Number	Dimensions X	Y	Z
12	6	AUF(†)-06-(*)-(+)HB30-12	7-1/2	2	4
	9	AUF(†)-09-(*)-(+)HB30-12	8-1/4	2-3/16	4-7/16
	12	AUF(†)-12-(*)-(+)HB30-12	9	2-7/16	4-13/16
	18	AUF(†)-18-(*)-(+)HB30-12	10-1/2	2-13/16	5-5/8
	24	AUF(†)-24-(*)-(+)HB30-12	12	3-3/16	6-7/16
	30	AUF(†)-30-(*)-(+)HB30-12	13-1/2	3-5/8	7-1/4
	36	AUF(†)-36-(*)-(+)HB30-12	15	4	8-1/16
	42	AUF(†)-42-(*)-(+)HB30-12	16-1/2	4-7/16	8-13/16
24	6	AUF(†)-06-(*)-(+)HB30-24	13-1/2	3-5/8	7-1/4
	9	AUF(†)-09-(*)-(+)HB30-24	14-1/4	3-13/16	7-5/8
	12	AUF(†)-12-(*)-(+)HB30-24	15	4	8-1/16
	18	AUF(†)-18-(*)-(+)HB30-24	16-1/2	4-7/16	8-13/16
	24	AUF(†)-24-(*)-(+)HB30-24	18	4-13/16	9-5/8
	30	AUF(†)-30-(*)-(+)HB30-24	19-1/2	5-1/4	10-7/16
	36	AUF(†)-36-(*)-(+)HB30-24	21	5-5/8	11-1/4
	42	AUF(†)-42-(*)-(+)HB30-24	22-1/2	6	12-1/16
36	6	AUF(†)-06-(*)-(+)HB30-36	19-1/2	5-1/4	10-7/16
	9	AUF(†)-09-(*)-(+)HB30-36	20-1/4	5-7/16	10-7/8
	12	AUF(†)-12-(*)-(+)HB30-36	21	5-5/8	11-1/4
	18	AUF(†)-18-(*)-(+)HB30-36	22-1/2	6	12-1/16
	24	AUF(†)-24-(*)-(+)HB30-36	24	6-7/16	12-7/8
	30	AUF(†)-30-(*)-(+)HB30-36	25-1/2	6-13/16	13-11/16
	36	AUF(†)-36-(*)-(+)HB30-36	27	7-1/4	14-1/2
	42	AUF(†)-42-(*)-(+)HB30-36	28-1/2	7-5/8	15-1/4
48	6	AUF(†)-06-(*)-(+)HB30-48	25-1/2	6-13/16	13-11/16
	9	AUF(†)-09-(*)-(+)HB30-48	26-1/4	7-1/16	14-1/16
	12	AUF(†)-12-(*)-(+)HB30-48	27	7-1/4	14-1/2
	18	AUF(†)-18-(*)-(+)HB30-48	28-1/2	7-5/8	15-1/4
	24	AUF(†)-24-(*)-(+)HB30-48	30	8-1/16	16-1/16
	30	AUF(†)-30-(*)-(+)HB30-48	31-1/2	8-7/16	16-7/8
	36	AUF(†)-36-(*)-(+)HB30-48	33	8-13/16	17-11/16
	42	AUF(†)-42-(*)-(+)HB30-48	34-1/2	9-1/4	18-1/2

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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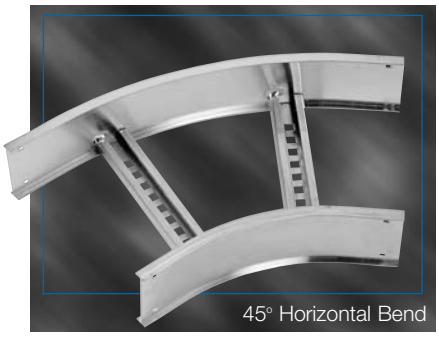
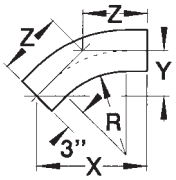
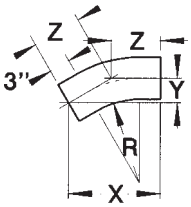
T&B® Cable Tray Aluminum

H-Style Fittings – Horizontal Bends – 45° / 30°







Part Numbering System

AHF-4-24-L-HB45-12

- AHF-4: Fitting Material and Siderail
- 24: Width
- L: Siderail Depth
- HB: Fitting Type
- 45: Bottom Style
- 12: Angle / Radius

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**
Angle: **45°, 30°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

Technical Specifications

45° Horizontal Bend — H-Style

Radius R	Width	Catalogue Number	Dimensions X	Y	Z
12	6	AHF(†)-06-(*)-HB45-12	15-3/4	6-1/2	9-3/16
	9	AHF(†)-09-(*)-HB45-12	16-13/16	6-15/16	9-13/16
	12	AHF(†)-12-(*)-HB45-12	17-7/8	7-3/8	10-7/16
	18	AHF(†)-18-(*)-HB45-12	20	8-1/4	11-11/16
	24	AHF(†)-24-(*)-HB45-12	22-1/16	9-1/8	12-15/16
	30	AHF(†)-30-(*)-HB45-12	24-3/16	10	14-3/16
	36	AHF(†)-36-(*)-HB45-12	26-5/16	10-15/16	15-7/16
	42	AHF(†)-42-(*)-HB45-12	28-7/16	11-13/16	16-11/16
24	6	AHF(†)-06-(*)-HB45-24	24-3/16	10	14-3/16
	9	AHF(†)-09-(*)-HB45-24	25-1/4	10-1/2	14-13/16
	12	AHF(†)-12-(*)-HB45-24	26-5/16	10-15/16	15-7/16
	18	AHF(†)-18-(*)-HB45-24	28-7/16	11-13/16	16-11/16
	24	AHF(†)-24-(*)-HB45-24	30-9/16	12-11/16	17-15/16
	30	AHF(†)-30-(*)-HB45-24	32-11/16	13-9/16	19-1/8
	36	AHF(†)-36-(*)-HB45-24	34-13/16	14-7/8	20-3/8
	42	AHF(†)-42-(*)-HB45-24	36-15/16	15-5/16	21-5/8
36	6	AHF(†)-06-(*)-HB45-36	32-11/16	13-9/16	19-1/8
	9	AHF(†)-09-(*)-HB45-36	33-3/4	14	19-3/4
	12	AHF(†)-12-(*)-HB45-36	34-13/16	14-7/16	20-3/8
	18	AHF(†)-18-(*)-HB45-36	36-15/16	15-5/16	21-5/8
	24	AHF(†)-24-(*)-HB45-36	39-1/16	16-3/16	22-7/8
	30	AHF(†)-30-(*)-HB45-36	41-3/16	17-1/16	24-1/8
	36	AHF(†)-36-(*)-HB45-36	43-5/16	17-15/16	25-3/8
	42	AHF(†)-42-(*)-HB45-36	45-7/16	18-13/16	26-5/8
48	6	AHF(†)-06-(*)-HB45-48	41-3/16	17-1/16	24-1/8
	9	AHF(†)-09-(*)-HB45-48	42-1/4	17-1/2	24-3/4
	12	AHF(†)-12-(*)-HB45-48	43-5/16	17-15/16	25-3/8
	18	AHF(†)-18-(*)-HB45-48	45-7/16	18-13/16	26-5/8
	24	AHF(†)-24-(*)-HB45-48	47-9/16	19-11/16	27-3/4
	30	AHF(†)-30-(*)-HB45-48	49-11/16	20-9/16	29-1/8
	36	AHF(†)-36-(*)-HB45-48	51-13/16	21-7/16	30-5/16
	42	AHF(†)-42-(*)-HB45-48	53-15/16	22-5/16	31-9/16

30° Horizontal Bend — H-Style

Radius R	Width	Catalogue Number	Dimensions X	Y	Z
12	6	AHF(†)-06-(*)-HB30-12	13-1/8	3-1/2	7
	9	AHF(†)-09-(*)-HB30-12	13-7/8	3-11/16	7-7/16
	12	AHF(†)-12-(*)-HB30-12	14-5/8	3-15/16	7-13/16
	18	AHF(†)-18-(*)-HB30-12	16-1/8	4-5/16	8-5/8
	24	AHF(†)-24-(*)-HB30-12	17-5/8	4-11/16	9-7/8
	30	AHF(†)-30-(*)-HB30-12	19-1/8	5-1/8	10-1/4
	36	AHF(†)-36-(*)-HB30-12	20-5/8	5-1/2	11-1/16
	42	AHF(†)-42-(*)-HB30-12	22-1/8	5-15/16	11-13/16
24	6	AHF(†)-06-(*)-HB30-24	19-1/8	5-1/8	10-1/4
	9	AHF(†)-09-(*)-HB30-24	19-7/8	5-5/16	10-5/8
	12	AHF(†)-12-(*)-HB30-24	20-5/8	5-1/2	11-1/16
	18	AHF(†)-18-(*)-HB30-24	22-1/8	5-5/16	11-13/16
	24	AHF(†)-24-(*)-HB30-24	23-5/8	6-5/16	12-5/8
	30	AHF(†)-30-(*)-HB30-24	25-1/8	6-3/4	13-7/16
	36	AHF(†)-36-(*)-HB30-24	26-5/8	7-1/8	14-1/4
	42	AHF(†)-42-(*)-HB30-24	28-1/8	7-1/2	15-1/16
36	6	AHF(†)-06-(*)-HB30-36	25-1/8	6-3/4	13-7/16
	9	AHF(†)-09-(*)-HB30-36	25-7/8	6-15/16	13-7/8
	12	AHF(†)-12-(*)-HB30-36	26-5/8	7-1/8	14-1/4
	18	AHF(†)-18-(*)-HB30-36	28-1/8	7-1/2	15-1/16
	24	AHF(†)-24-(*)-HB30-36	29-5/8	7-15/16	15-7/8
	30	AHF(†)-30-(*)-HB30-36	31-1/8	8-5/16	16-11/16
	36	AHF(†)-36-(*)-HB30-36	32-5/8	8-3/4	17-1/2
	42	AHF(†)-42-(*)-HB30-36	34-1/8	9-1/8	18-1/4
48	6	AHF(†)-06-(*)-HB30-48	31-1/8	8-5/16	16-11/16
	9	AHF(†)-09-(*)-HB30-48	31-7/8	8-9/16	17-1/16
	12	AHF(†)-12-(*)-HB30-48	32-5/8	8-3/4	17-1/2
	18	AHF(†)-18-(*)-HB30-48	34-1/8	9-1/8	18-1/4
	24	AHF(†)-24-(*)-HB30-48	35-5/8	9-9/16	19-1/16
	30	AHF(†)-30-(*)-HB30-48	37-1/8	9-15/16	19-7/8
	36	AHF(†)-36-(*)-HB30-48	38-5/8	10-5/16	20-11/16
	42	AHF(†)-42-(*)-HB30-48	40-1/8	10-3/4	21-1/2

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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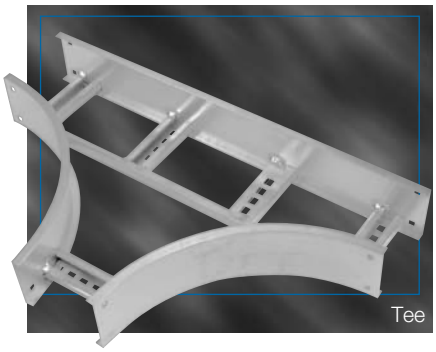
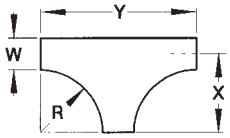
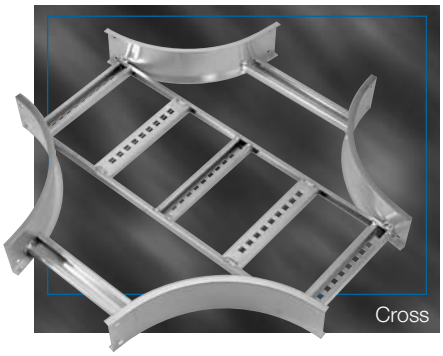
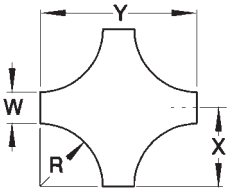
T&B® Cable Tray Aluminum

U-Style Fittings – Horizontal – Tee, Cross









Part Numbering System

AUF-5-06-L-HT-12

- AUF-5: Fitting Material and Siderail
- 06: Width
- L: Bottom Style
- HT: Fitting Type
- 12: Radius

Siderail Depth

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Radius: 12, 24, 36, 48
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: 4"– 7"

Technical Specifications

Horizontal TEE — U-Style

Radius R	Width	Catalogue Number	Dimensions X	Dimensions Y
12	6	AUF(†)-06-(*)-HT12	15	30
	9	AUF(†)-09-(*)-HT12	16-1/2	33
	12	AUF(†)-12-(*)-HT12	18	36
	18	AUF(†)-18-(*)-HT12	21	42
	24	AUF(†)-24-(*)-HT12	24	48
	30	AUF(†)-30-(*)-HT12	27	54
	36	AUF(†)-36-(*)-HT12	30	60
	42	AUF(†)-42-(*)-HT12	33	66
24	6	AUF(†)-06-(*)-HT24	27	54
	9	AUF(†)-09-(*)-HT24	28-1/2	57
	12	AUF(†)-12-(*)-HT24	30	60
	18	AUF(†)-18-(*)-HT24	33	66
	24	AUF(†)-24-(*)-HT24	36	72
	30	AUF(†)-30-(*)-HT24	39	78
	36	AUF(†)-36-(*)-HT24	42	84
	42	AUF(†)-42-(*)-HT24	45	90
36	6	AUF(†)-06-(*)-HT36	39	78
	9	AUF(†)-09-(*)-HT36	40-1/2	81
	12	AUF(†)-12-(*)-HT36	42	84
	18	AUF(†)-18-(*)-HT36	45	90
	24	AUF(†)-24-(*)-HT36	48	96
	30	AUF(†)-30-(*)-HT36	51	102
	36	AUF(†)-36-(*)-HT36	54	108
	42	AUF(†)-42-(*)-HT36	57	114
48	6	AUF(†)-06-(*)-HT48	51	102
	9	AUF(†)-09-(*)-HT48	52-1/2	105
	12	AUF(†)-12-(*)-HT48	54	108
	18	AUF(†)-18-(*)-HT48	57	114
	24	AUF(†)-24-(*)-HT48	60	120
	30	AUF(†)-30-(*)-HT48	63	126
	36	AUF(†)-36-(*)-HT48	66	132
	42	AUF(†)-42-(*)-HT48	69	138

Horizontal CROSS — U-Style

Radius R	Width	Catalogue Number	Dimensions X	Dimensions Y
12	6	AUF(†)-06-(*)-HX12	15	30
	9	AUF(†)-09-(*)-HX12	16-1/2	33
	12	AUF(†)-12-(*)-HX12	18	36
	18	AUF(†)-18-(*)-HX12	21	42
	24	AUF(†)-24-(*)-HX12	24	48
	30	AUF(†)-30-(*)-HX12	27	54
	36	AUF(†)-36-(*)-HX12	30	60
	42	AUF(†)-42-(*)-HX12	33	66
24	6	AUF(†)-06-(*)-HX24	27	54
	9	AUF(†)-09-(*)-HX24	28-1/2	57
	12	AUF(†)-12-(*)-HX24	30	60
	18	AUF(†)-18-(*)-HX24	33	66
	24	AUF(†)-24-(*)-HX24	36	72
	30	AUF(†)-30-(*)-HX24	39	78
	36	AUF(†)-36-(*)-HX24	42	84
	42	AUF(†)-42-(*)-HX24	45	90
36	6	AUF(†)-06-(*)-HX36	39	78
	9	AUF(†)-09-(*)-HX36	40-1/2	81
	12	AUF(†)-12-(*)-HX36	42	84
	18	AUF(†)-18-(*)-HX36	45	90
	24	AUF(†)-24-(*)-HX36	48	96
	30	AUF(†)-30-(*)-HX36	51	102
	36	AUF(†)-36-(*)-HX36	54	108
	42	AUF(†)-42-(*)-HX36	57	114
48	6	AUF(†)-06-(*)-HX48	51	102
	9	AUF(†)-09-(*)-HX48	52-1/2	105
	12	AUF(†)-12-(*)-HX48	54	108
	18	AUF(†)-18-(*)-HX48	57	114
	24	AUF(†)-24-(*)-HX48	60	120
	30	AUF(†)-30-(*)-HX48	63	126
	36	AUF(†)-36-(*)-HX48	66	132
	42	AUF(†)-42-(*)-HX48	69	138

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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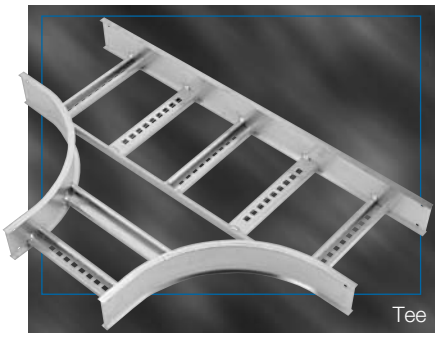
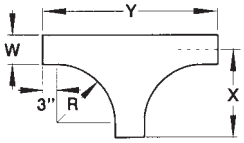
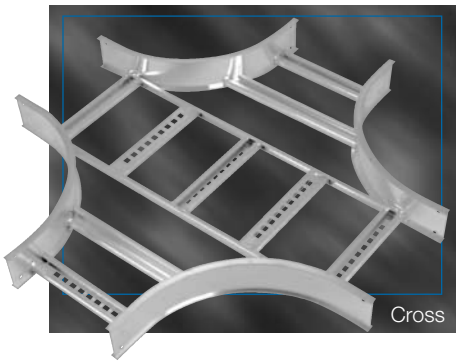
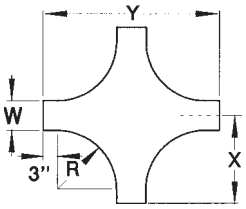
T&B® Cable Tray Aluminum

H-Style Fittings – Horizontal – Tee, Cross









Part Numbering System

AHF-5-06-L-HT-12

- AHF-5: Fitting Material and Siderail
- 06: Width
- L: Siderail Depth
- HT: Fitting Type
- 12: Bottom Style / Radius

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"– 7"**

Technical Specifications

Horizontal TEE — H-Style

Radius R	Width	Catalogue Number	Dimensions X	Dimensions Y
12	6	AHF(†)-06-(*)-HT12	18	36
	9	AHF(†)-09-(*)-HT12	19-1/2	39
	12	AHF(†)-12-(*)-HT12	21	42
	18	AHF(†)-18-(*)-HT12	24	48
	24	AHF(†)-24-(*)-HT12	27	54
	30	AHF(†)-30-(*)-HT12	30	60
	36	AHF(†)-36-(*)-HT12	33	66
	42	AHF(†)-42-(*)-HT12	36	72
24	6	AHF(†)-06-(*)-HT24	30	60
	9	AHF(†)-09-(*)-HT24	31-1/2	63
	12	AHF(†)-12-(*)-HT24	33	66
	18	AHF(†)-18-(*)-HT24	36	72
	24	AHF(†)-24-(*)-HT24	39	78
	30	AHF(†)-30-(*)-HT24	42	84
	36	AHF(†)-36-(*)-HT24	45	90
	42	AHF(†)-42-(*)-HT24	48	96
36	6	AHF(†)-06-(*)-HT36	42	84
	9	AHF(†)-09-(*)-HT36	43-1/2	87
	12	AHF(†)-12-(*)-HT36	45	90
	18	AHF(†)-18-(*)-HT36	48	96
	24	AHF(†)-24-(*)-HT36	51	102
	30	AHF(†)-30-(*)-HT36	54	108
	36	AHF(†)-36-(*)-HT36	57	114
	42	AHF(†)-42-(*)-HT36	60	120
48	6	AHF(†)-06-(*)-HT48	54	108
	9	AHF(†)-09-(*)-HT48	55-1/2	111
	12	AHF(†)-12-(*)-HT48	57	114
	18	AHF(†)-18-(*)-HT48	60	120
	24	AHF(†)-24-(*)-HT48	63	126
	30	AHF(†)-30-(*)-HT48	66	132
	36	AHF(†)-36-(*)-HT48	69	138
	42	AHF(†)-42-(*)-HT48	72	144

Horizontal CROSS — H-Style

Radius R	Width	Catalogue Number	Dimensions X	Dimensions Y
12	6	AHF(†)-06-(*)-HX12	18	36
	9	AHF(†)-09-(*)-HX12	19-1/2	39
	12	AHF(†)-12-(*)-HX12	21	42
	18	AHF(†)-18-(*)-HX12	24	48
	24	AHF(†)-24-(*)-HX12	27	54
	30	AHF(†)-30-(*)-HX12	30	60
	36	AHF(†)-36-(*)-HX12	33	66
	42	AHF(†)-42-(*)-HX12	36	72
24	6	AHF(†)-06-(*)-HX24	30	60
	9	AHF(†)-09-(*)-HX24	31-1/2	63
	12	AHF(†)-12-(*)-HX24	33	66
	18	AHF(†)-18-(*)-HX24	36	72
	24	AHF(†)-24-(*)-HX24	39	78
	30	AHF(†)-30-(*)-HX24	42	84
	36	AHF(†)-36-(*)-HX24	45	90
	42	AHF(†)-42-(*)-HX24	48	96
36	6	AHF(†)-06-(*)-HX36	42	84
	9	AHF(†)-09-(*)-HX36	43-1/2	87
	12	AHF(†)-12-(*)-HX36	45	90
	18	AHF(†)-18-(*)-HX36	48	96
	24	AHF(†)-24-(*)-HX36	51	102
	30	AHF(†)-30-(*)-HX36	54	108
	36	AHF(†)-36-(*)-HX36	57	114
	42	AHF(†)-42-(*)-HX36	60	120
48	6	AHF(†)-06-(*)-HX48	54	108
	9	AHF(†)-09-(*)-HX48	55-1/2	111
	12	AHF(†)-12-(*)-HX48	57	114
	18	AHF(†)-18-(*)-HX48	60	120
	24	AHF(†)-24-(*)-HX48	63	126
	30	AHF(†)-30-(*)-HX48	66	132
	36	AHF(†)-36-(*)-HX48	69	138
	42	AHF(†)-42-(*)-HX48	72	144

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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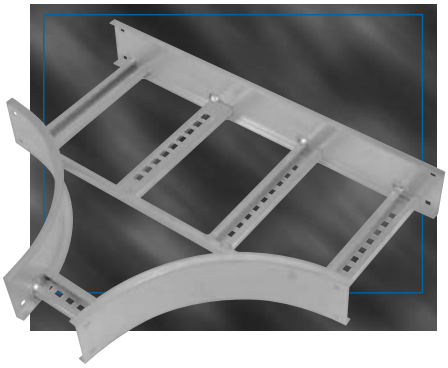
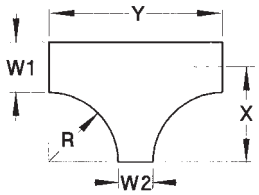
T&B® Cable Tray Aluminum

U-Style Fittings – Horizontal Reducing Tee





Part Numbering System

AUF-7-42-36-L-RT12

- Fitting Material and Siderail
- Width 1
- Bottom Style
- Fitting Type
- Radius
- Siderail Depth
- Width 2

Selection Guide

Tray Widths W1: **42, 36, 30, 24, 18, 12, 9**
Tray Widths W2: **36, 30, 24, 18, 12, 9, 6**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4”– 7”**

Technical Specifications

Horizontal REDUCING TEE — U-Style

Widths W1	Widths W2	Catalogue Number	(+) 12" Radius X	(+) 12" Radius Y	(+) 24" Radius X	(+) 24" Radius Y	(+) 36" Radius X	(+) 36" Radius Y	(+) 48" Radius X	(+) 48" Radius Y
42	36	AUF(†)-4236-(*)-RT(+)	33	60	45	84	57	108	69	132
	30	AUF(†)-4230-(*)-RT(+)	33	54	45	78	57	102	69	126
	24	AUF(†)-4224-(*)-RT(+)	33	48	45	72	57	96	69	120
	18	AUF(†)-4218-(*)-RT(+)	33	42	45	66	57	90	69	114
	12	AUF(†)-4212-(*)-RT(+)	33	36	45	60	57	84	69	108
	9	AUF(†)-4209-(*)-RT(+)	33	33	45	57	57	81	69	105
	6	AUF(†)-4206-(*)-RT(+)	33	30	45	54	57	78	69	102
36	30	AUF(†)-3630-(*)-RT(+)	30	54	42	78	54	102	66	126
	24	AUF(†)-3624-(*)-RT(+)	30	48	42	72	54	96	66	120
	18	AUF(†)-3618-(*)-RT(+)	30	42	42	66	54	90	66	114
	12	AUF(†)-3612-(*)-RT(+)	30	36	42	60	54	84	66	108
	9	AUF(†)-3609-(*)-RT(+)	30	33	42	57	54	81	66	105
	6	AUF(†)-3606-(*)-RT(+)	30	30	42	54	54	78	66	102
30	24	AUF(†)-3024-(*)-RT(+)	27	48	39	72	51	96	63	120
	18	AUF(†)-3018-(*)-RT(+)	27	42	39	66	51	90	63	114
	12	AUF(†)-3012-(*)-RT(+)	27	36	39	60	51	84	63	108
	9	AUF(†)-3009-(*)-RT(+)	27	33	39	57	51	81	63	105
	6	AUF(†)-3006-(*)-RT(+)	27	30	39	54	51	78	63	102
24	18	AUF(†)-2418-(*)-RT(+)	24	42	36	66	48	90	60	114
	12	AUF(†)-2412-(*)-RT(+)	24	36	36	60	48	84	60	108
	9	AUF(†)-2409-(*)-RT(+)	24	33	36	57	48	81	60	105
	6	AUF(†)-2406-(*)-RT(+)	24	30	36	54	48	78	60	102
18	12	AUF(†)-1812-(*)-RT(+)	21	36	33	60	45	84	57	108
	9	AUF(†)-1809-(*)-RT(+)	21	33	33	57	45	81	57	105
	6	AUF(†)-1806-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	AUF(†)-1209-(*)-RT(+)	18	33	30	57	42	81	54	105
	6	AUF(†)-1206-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	AUF(†)-0906-(*)-RT(+)	16-1/2	30	28-1/2	54	40-1/2	78	52-1/2	102

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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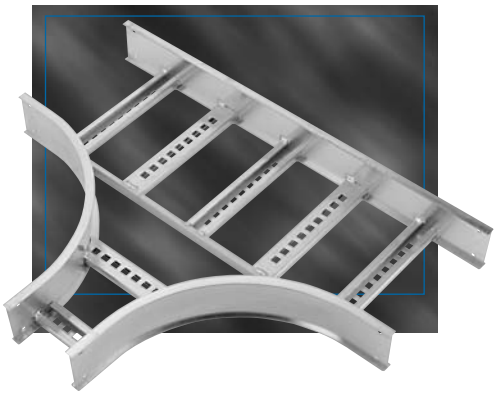
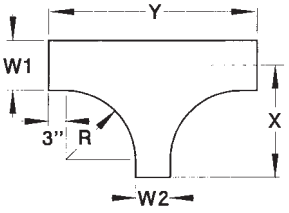
T&B® Cable Tray Aluminum

H-Style Fittings – Horizontal Reducing Tee





Part Numbering System

AHF-7-42-36-L-RT12

- AHF-7: Fitting Material and Siderail
- 42: Width 1
- 36: Width 2
- L: Bottom Style
- RT12: Fitting Type Radius
- 7: Siderail Depth

Selection Guide

Tray Widths W1: **42, 36, 30, 24, 18, 12, 9**
Tray Widths W2: **36, 30, 24, 18, 12, 9, 6**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

Technical Specifications

Horizontal REDUCING TEE — H-Style

Widths W1	Widths W2	Catalogue Number	(+) 12" Radius X	(+) 12" Radius Y	(+) 24" Radius X	(+) 24" Radius Y	(+) 36" Radius X	(+) 36" Radius Y	(+) 48" Radius X	(+) 48" Radius Y
42	36	AHF(†)-4236-(*)-RT(+)	36	66	48	90	60	114	72	138
	30	AHF(†)-4230-(*)-RT(+)	36	60	48	84	60	108	72	132
	24	AHF(†)-4224-(*)-RT(+)	36	54	48	78	60	102	72	126
	18	AHF(†)-4218-(*)-RT(+)	36	48	48	72	60	96	72	120
	12	AHF(†)-4212-(*)-RT(+)	36	42	48	66	60	90	72	114
	9	AHF(†)-4209-(*)-RT(+)	36	39	48	63	60	87	72	111
	6	AHF(†)-4206-(*)-RT(+)	36	36	48	60	60	84	72	108
36	30	AHF(†)-3630-(*)-RT(+)	33	60	45	84	57	108	69	132
	24	AHF(†)-3624-(*)-RT(+)	33	54	45	78	57	102	69	126
	18	AHF(†)-3618-(*)-RT(+)	33	48	45	72	57	96	69	120
	12	AHF(†)-3612-(*)-RT(+)	33	42	45	66	57	90	69	114
	9	AHF(†)-3609-(*)-RT(+)	33	39	45	63	57	87	69	111
	6	AHF(†)-3606-(*)-RT(+)	33	36	45	60	57	84	69	108
30	24	AHF(†)-3024-(*)-RT(+)	30	54	42	78	54	102	66	126
	18	AHF(†)-3018-(*)-RT(+)	30	48	42	72	54	96	66	120
	12	AHF(†)-3012-(*)-RT(+)	30	42	42	66	54	90	66	114
	9	AHF(†)-3009-(*)-RT(+)	30	39	42	63	54	87	66	111
	6	AHF(†)-3006-(*)-RT(+)	30	36	42	60	54	84	66	108
24	18	AHF(†)-2418-(*)-RT(+)	27	48	39	72	51	96	63	120
	12	AHF(†)-2412-(*)-RT(+)	27	42	39	66	51	90	63	114
	9	AHF(†)-2409-(*)-RT(+)	27	39	39	63	51	87	63	111
	6	AHF(†)-2406-(*)-RT(+)	27	36	39	60	51	84	63	108
18	12	AHF(†)-1812-(*)-RT(+)	24	42	36	66	48	90	60	114
	9	AHF(†)-1809-(*)-RT(+)	24	39	36	63	48	87	60	111
	6	AHF(†)-1806-(*)-RT(+)	24	36	36	60	48	84	60	108
12	9	AHF(†)-1209-(*)-RT(+)	21	39	33	63	45	87	57	111
	6	AHF(†)-1206-(*)-RT(+)	21	36	33	60	45	84	57	108
9	6	AHF(†)-0906-(*)-RT(+)	19-1/2	36	31-1/2	60	43-1/2	84	55-1/2	108

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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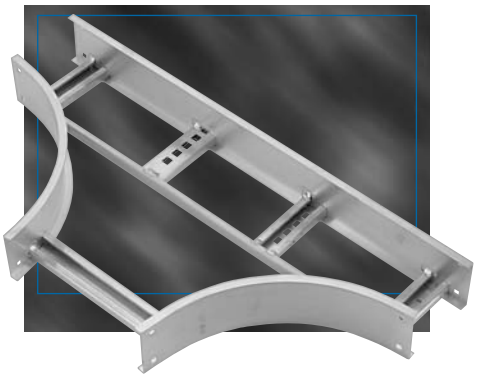
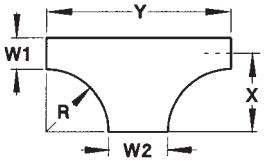
U-Style Fittings – Horizontal Expanding Tee





Part Numbering System

AUF-4-06-09-L-ET24

- AUF-4: Fitting Material and Siderail
- 06: Width 1
- 09: Siderail Depth
- L: Bottom Style
- ET: Fitting Type
- 24: Radius
- Width 2

Selection Guide

Tray Widths W1: **36, 30, 24, 18, 12, 9, 6**
Tray Widths W2: **42, 36, 30, 24, 18, 12, 9**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4”– 7”**

Technical Specifications

H

T&B® Cable Tray

Horizontal EXPANDING TEE — U-Style

Widths W1	Widths W2	Catalogue Number	(+) 12" Radius X	(+) 12" Radius Y	(+) 24" Radius X	(+) 24" Radius Y	(+) 36" Radius X	(+) 36" Radius Y	(+) 48" Radius X	(+) 48" Radius Y
36	42	AUF(†)-3642-(*)-ET(+)	30	66	42	90	54	114	66	138
30	36	AUF(†)-3036-(*)-ET(+)	27	60	39	84	51	108	63	132
	42	AUF(†)-3042-(*)-ET(+)	27	66	39	90	51	114	63	138
24	30	AUF(†)-2430-(*)-ET(+)	24	54	36	78	48	102	60	126
	36	AUF(†)-2436-(*)-ET(+)	24	60	36	84	48	108	60	132
	42	AUF(†)-2442-(*)-ET(+)	24	66	36	90	48	114	60	138
18	24	AUF(†)-1824-(*)-ET(+)	21	48	33	72	45	96	57	120
	30	AUF(†)-1830-(*)-ET(+)	21	54	33	78	45	102	57	126
	36	AUF(†)-1836-(*)-ET(+)	21	60	33	84	45	108	57	132
	42	AUF(†)-1842-(*)-ET(+)	21	66	33	90	45	114	57	138
12	18	AUF(†)-1218-(*)-ET(+)	18	42	30	66	42	90	54	114
	24	AUF(†)-1224-(*)-ET(+)	18	48	30	72	42	96	54	120
	30	AUF(†)-1230-(*)-ET(+)	18	54	30	78	42	102	54	126
	36	AUF(†)-1236-(*)-ET(+)	18	60	30	84	42	108	54	132
	42	AUF(†)-1242-(*)-ET(+)	18	66	30	90	42	114	54	138
9	12	AUF(†)-0912-(*)-ET(+)	16-1/2	36	28-1/2	60	40-1/2	84	52-1/2	108
	18	AUF(†)-0918-(*)-ET(+)	16-1/2	42	28-1/2	66	40-1/2	90	52-1/2	114
	24	AUF(†)-0924-(*)-ET(+)	16-1/2	48	28-1/2	72	40-1/2	96	52-1/2	120
	30	AUF(†)-0930-(*)-ET(+)	16-1/2	54	28-1/2	78	40-1/2	102	52-1/2	126
	36	AUF(†)-0936-(*)-ET(+)	16-1/2	60	28-1/2	84	40-1/2	108	52-1/2	132
	42	AUF(†)-0942-(*)-ET(+)	16-1/2	66	28-1/2	90	40-1/2	114	52-1/2	138
6	9	AUF(†)-0609-(*)-ET(+)	15	33	27	57	39	81	51	105
	12	AUF(†)-0612-(*)-ET(+)	15	36	27	60	39	84	51	108
	18	AUF(†)-0618-(*)-ET(+)	15	42	27	66	39	90	51	114
	24	AUF(†)-0624-(*)-ET(+)	15	48	27	72	39	96	51	120
	30	AUF(†)-0630-(*)-ET(+)	15	54	27	78	39	102	51	126
	36	AUF(†)-0636-(*)-ET(+)	15	60	27	84	39	108	51	132
	42	AUF(†)-0642-(*)-ET(+)	15	66	27	90	39	114	51	138

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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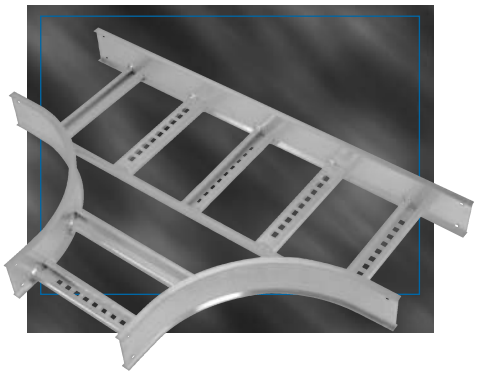
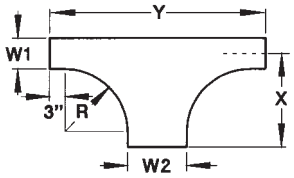
T&B® Cable Tray Aluminum

H-Style Fittings – Horizontal Expanding Tee





Part Numbering System

AHF-4-06-09-L-ET24

- AHF-4: Fitting Material and Siderail
- 06: Width 1
- 09: Siderail Depth
- L: Bottom Style
- ET: Fitting Type
- 24: Radius
- Width 2

Selection Guide

Tray Widths W1: **36, 30, 24, 18, 12, 9, 6**
Tray Widths W2: **42, 36, 30, 24, 18, 12, 9**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

Technical Specifications

Horizontal EXPANDING TEE — H-Style

Widths W1	Widths W2	Catalogue Number	(+) 12" Radius X	(+) 12" Radius Y	(+) 24" Radius X	(+) 24" Radius Y	(+) 36" Radius X	(+) 36" Radius Y	(+) 48" Radius X	(+) 48" Radius Y
36	42	AHF(†)-3642-(*)-ET(+)	33	72	45	96	57	120	69	144
30	36	AHF(†)-3036-(*)-ET(+)	30	66	42	90	54	114	66	138
	42	AHF(†)-3042-(*)-ET(+)	30	72	42	96	54	120	66	144
24	30	AHF(†)-2430-(*)-ET(+)	27	60	39	84	51	108	63	132
	36	AHF(†)-2436-(*)-ET(+)	27	66	39	90	51	114	63	138
	42	AHF(†)-2442-(*)-ET(+)	27	72	39	96	51	120	63	144
18	24	AHF(†)-1824-(*)-ET(+)	24	54	36	78	48	102	60	126
	30	AHF(†)-1830-(*)-ET(+)	24	60	36	84	48	108	60	132
	36	AHF(†)-1836-(*)-ET(+)	24	66	36	90	48	114	60	138
	42	AHF(†)-1842-(*)-ET(+)	24	72	36	96	48	120	60	144
12	18	AHF(†)-1218-(*)-ET(+)	21	48	33	72	45	96	57	120
	24	AHF(†)-1224-(*)-ET(+)	21	54	33	78	45	102	57	126
	30	AHF(†)-1230-(*)-ET(+)	21	60	33	84	45	108	57	132
	36	AHF(†)-1236-(*)-ET(+)	21	66	33	90	45	114	57	138
	42	AHF(†)-1242-(*)-ET(+)	21	72	33	96	45	120	57	144
9	12	AHF(†)-0912-(*)-ET(+)	19-1/2	42	31-1/2	66	43-1/2	90	55-1/2	114
	18	AHF(†)-0918-(*)-ET(+)	19-1/2	48	31-1/2	72	43-1/2	96	55-1/2	120
	24	AHF(†)-0924-(*)-ET(+)	19-1/2	54	31-1/2	78	43-1/2	102	55-1/2	126
	30	AHF(†)-0930-(*)-ET(+)	19-1/2	60	31-1/2	84	43-1/2	108	55-1/2	132
	36	AHF(†)-0936-(*)-ET(+)	19-1/2	66	31-1/2	90	43-1/2	114	55-1/2	138
	42	AHF(†)-0942-(*)-ET(+)	19-1/2	72	31-1/2	96	43-1/2	120	55-1/2	144
6	9	AHF(†)-0609-(*)-ET(+)	18	39	30	63	42	87	54	111
	12	AHF(†)-0612-(*)-ET(+)	18	42	30	66	42	90	54	114
	18	AHF(†)-0618-(*)-ET(+)	18	48	30	72	42	96	54	120
	24	AHF(†)-0624-(*)-ET(+)	18	54	30	78	42	102	54	126
	30	AHF(†)-0630-(*)-ET(+)	18	60	30	84	42	108	54	132
	36	AHF(†)-0636-(*)-ET(+)	18	66	30	90	42	114	54	138
	42	AHF(†)-0642-(*)-ET(+)	18	72	30	96	42	120	54	144

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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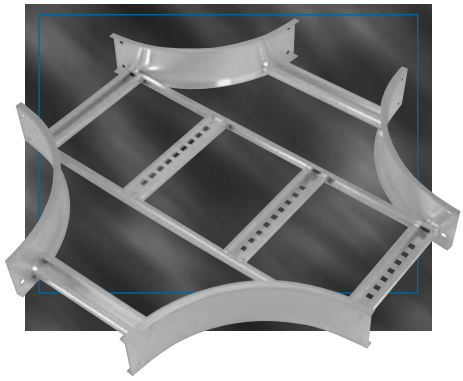
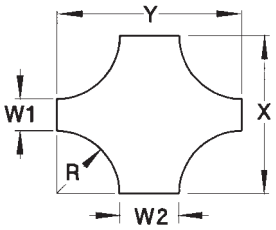
T&B® Cable Tray Aluminum

U-Style Fittings – Horizontal Expanding Cross





Part Numbering System

AUF-5-36-42-L-EX36

- AUF-5: Fitting Material and Siderail
- 36: Width 1
- 42: Width 2
- L: Bottom Style
- EX: Fitting Type
- 36: Radius
- 5: Siderail Depth

Selection Guide

Tray Widths W1: **36, 30, 24, 18, 12, 9, 6**
Tray Widths W2: **42, 36, 30, 24, 18, 12, 9**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

Technical Specifications

Horizontal EXPANDING CROSS — U-Style

Widths W1	Widths W2	Catalogue Number	(+) 12" Radius X	(+) 12" Radius Y	(+) 24" Radius X	(+) 24" Radius Y	(+) 36" Radius X	(+) 36" Radius Y	(+) 48" Radius X	(+) 48" Radius Y
36	42	AUF(†)-3642-(*)-EX(+)	60	66	84	90	108	114	132	138
30	36	AUF(†)-3036-(*)-EX(+)	54	60	78	84	102	108	126	132
	42	AUF(†)-3042-(*)-EX(+)	54	66	78	90	102	114	126	138
24	30	AUF(†)-2430-(*)-EX(+)	48	54	72	78	96	102	120	126
	36	AUF(†)-2436-(*)-EX(+)	48	60	72	84	96	108	120	132
	42	AUF(†)-2442-(*)-EX(+)	48	66	72	90	96	114	120	138
18	24	AUF(†)-1824-(*)-EX(+)	42	48	66	72	90	96	114	120
	30	AUF(†)-1830-(*)-EX(+)	42	54	66	78	90	102	114	126
	36	AUF(†)-1836-(*)-EX(+)	42	60	66	84	90	108	114	132
	42	AUF(†)-1842-(*)-EX(+)	42	66	66	90	90	114	114	138
12	18	AUF(†)-1218-(*)-EX(+)	36	42	60	66	84	90	108	114
	24	AUF(†)-1224-(*)-EX(+)	36	48	60	72	84	96	108	120
	30	AUF(†)-1230-(*)-EX(+)	36	54	60	78	84	102	108	126
	36	AUF(†)-1236-(*)-EX(+)	36	60	60	84	84	108	108	132
	42	AUF(†)-1242-(*)-EX(+)	36	66	60	90	84	114	108	138
9	12	AUF(†)-0912-(*)-EX(+)	33	36	57	60	81	84	105	108
	18	AUF(†)-0918-(*)-EX(+)	33	42	57	66	81	90	105	114
	24	AUF(†)-0924-(*)-EX(+)	33	48	57	72	81	96	105	120
	30	AUF(†)-0930-(*)-EX(+)	33	54	57	78	81	102	105	126
	36	AUF(†)-0936-(*)-EX(+)	33	60	57	84	81	108	105	132
	42	AUF(†)-0942-(*)-EX(+)	33	66	57	90	81	114	105	138
6	9	AUF(†)-0609-(*)-EX(+)	30	33	54	57	78	81	102	105
	12	AUF(†)-0612-(*)-EX(+)	30	36	54	60	78	84	102	108
	18	AUF(†)-0618-(*)-EX(+)	30	42	54	66	78	90	102	114
	24	AUF(†)-0624-(*)-EX(+)	30	48	54	72	78	96	102	120
	30	AUF(†)-0630-(*)-EX(+)	30	54	54	78	78	102	102	126
	36	AUF(†)-0636-(*)-EX(+)	30	60	54	84	78	108	102	132
	42	AUF(†)-0642-(*)-EX(+)	30	66	54	90	78	114	102	138

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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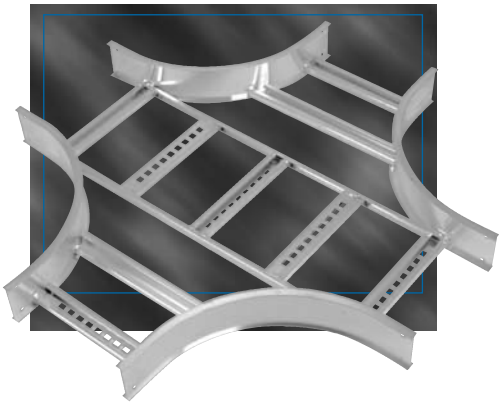
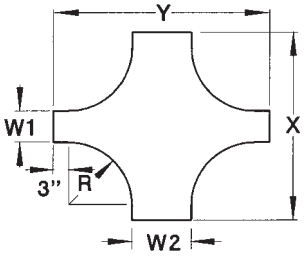
T&B® Cable Tray Aluminum

H-Style Fittings – Horizontal Expanding Cross





Part Numbering System

AHF-5-36-42-L-EX36

- Fitting Material and Siderail
- Width 1
- Bottom Style
- Fitting Type
- Radius
- Siderail Depth
- Width 2

Selection Guide

Tray Widths W1: **36, 30, 24, 18, 12, 9, 6**
Tray Widths W2: **42, 36, 30, 24, 18, 12, 9**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

Technical Specifications

Horizontal EXPANDING CROSS — H-Style

Widths W1	Widths W2	Catalogue Number	(+) 12" Radius X	(+) 12" Radius Y	(+) 24" Radius X	(+) 24" Radius Y	(+) 36" Radius X	(+) 36" Radius Y	(+) 48" Radius X	(+) 48" Radius Y
36	42	AHF(†)-3642-(*)-EX(+)	66	72	90	96	114	120	138	144
30	36	AHF(†)-3036-(*)-EX(+)	60	66	84	90	108	114	132	138
	42	AHF(†)-3042-(*)-EX(+)	60	72	84	96	108	120	132	144
24	30	AHF(†)-2430-(*)-EX(+)	54	60	78	84	102	108	126	132
	36	AHF(†)-2436-(*)-EX(+)	54	66	78	90	102	114	126	138
	42	AHF(†)-2442-(*)-EX(+)	54	72	78	96	102	120	126	144
18	24	AHF(†)-1824-(*)-EX(+)	48	54	72	78	96	102	120	126
	30	AHF(†)-1830-(*)-EX(+)	48	60	72	84	96	108	120	132
	36	AHF(†)-1836-(*)-EX(+)	48	66	72	90	96	114	120	138
	42	AHF(†)-1842-(*)-EX(+)	48	72	72	96	96	120	120	144
12	18	AHF(†)-1218-(*)-EX(+)	42	48	66	72	90	96	114	120
	24	AHF(†)-1224-(*)-EX(+)	42	54	66	78	90	102	114	126
	30	AHF(†)-1230-(*)-EX(+)	42	60	66	84	90	108	114	132
	36	AHF(†)-1236-(*)-EX(+)	42	66	66	90	90	114	114	138
	42	AHF(†)-1242-(*)-EX(+)	42	72	66	96	90	120	114	144
9	12	AHF(†)-0912-(*)-EX(+)	39	42	63	66	87	90	111	114
	18	AHF(†)-0918-(*)-EX(+)	39	48	63	72	87	96	111	120
	24	AHF(†)-0924-(*)-EX(+)	39	54	63	78	87	102	111	126
	30	AHF(†)-0930-(*)-EX(+)	39	60	63	84	87	108	111	132
	36	AHF(†)-0936-(*)-EX(+)	39	66	63	90	87	114	111	138
	42	AHF(†)-0942-(*)-EX(+)	39	72	63	96	87	120	111	144
6	9	AHF(†)-0609-(*)-EX(+)	36	39	60	63	84	87	108	111
	12	AHF(†)-0612-(*)-EX(+)	36	42	60	66	84	90	108	114
	18	AHF(†)-0618-(*)-EX(+)	36	48	60	72	84	96	108	120
	24	AHF(†)-0624-(*)-EX(+)	36	54	60	78	84	102	108	126
	30	AHF(†)-0630-(*)-EX(+)	36	60	60	84	84	108	108	132
	36	AHF(†)-0636-(*)-EX(+)	36	66	60	90	84	114	108	138
	42	AHF(†)-0642-(*)-EX(+)	36	72	60	96	84	120	108	144

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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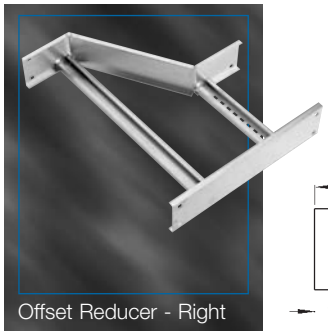
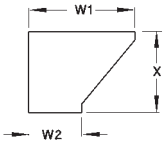
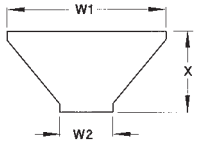
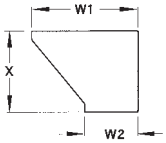
T&B® Cable Tray Aluminum

U-Style Fittings – Reducers









Part Numbering System

AUF-6-42-36-L-HLR

- Fitting Material and Siderail
- Width 1
- Bottom Style
- Fitting Type
- Siderail Depth
- Width 2

Selection Guide

Tray Widths W1: **42, 36, 30, 24, 18, 12, 9**
Tray Widths W2: **36, 30, 24, 18, 12, 9, 6**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

H

T&B® Cable Tray

Technical Specifications

Horizontal REDUCERS — U-Style

Widths W1	Widths W2	LH Reducer Catalogue Number	LH Reducer Dim. X	Straight Reducer (Concentric) Catalogue Number	Straight Reducer (Concentric) Dim. X	RH Reducer Catalogue Number	RH Reducer Dim. X
42	36	AUF(†)-42-36-(*)-HLR	11-7/16	AUF(†)-42-36-(*)-HSR	9-3/4	AUF(†)-42-36-(*)-HRR	11-7/16
	30	AUF(†)-42-30-(*)-HLR	14-15/16	AUF(†)-42-30-(*)-HSR	11-7/16	AUF(†)-42-30-(*)-HRR	14-15/16
	24	AUF(†)-42-24-(*)-HLR	18-3/8	AUF(†)-42-24-(*)-HSR	13-3/8	AUF(†)-42-24-(*)-HRR	18-3/8
	18	AUF(†)-42-18-(*)-HLR	21-7/8	AUF(†)-42-18-(*)-HSR	14-5/16	AUF(†)-42-18-(*)-HRR	21-7/8
	12	AUF(†)-42-12-(*)-HLR	25-5/16	AUF(†)-42-12-(*)-HSR	16-11/16	AUF(†)-42-12-(*)-HRR	25-5/16
	9	AUF(†)-42-9-(*)-HLR	27-1/16	AUF(†)-42-9-(*)-HSR	17-1/2	AUF(†)-42-9-(*)-HRR	27-1/16
	6	AUF(†)-42-6-(*)-HLR	28-13/16	AUF(†)-42-6-(*)-HSR	18-3/8	AUF(†)-42-6-(*)-HRR	28-13/16
36	30	AUF(†)-36-30-(*)-HLR	11-7/16	AUF(†)-36-30-(*)-HSR	9-3/4	AUF(†)-36-30-(*)-HRR	11-7/16
	24	AUF(†)-36-24-(*)-HLR	14-15/16	AUF(†)-36-24-(*)-HSR	11-7/16	AUF(†)-36-24-(*)-HRR	14-15/16
	18	AUF(†)-36-18-(*)-HLR	18-3/8	AUF(†)-36-18-(*)-HSR	13-3/8	AUF(†)-36-18-(*)-HRR	18-3/8
	12	AUF(†)-36-12-(*)-HLR	21-7/8	AUF(†)-36-12-(*)-HSR	14-5/16	AUF(†)-36-12-(*)-HRR	21-7/8
	9	AUF(†)-36-9-(*)-HLR	23-9/16	AUF(†)-36-9-(*)-HSR	15-13/16	AUF(†)-36-9-(*)-HRR	23-9/16
	6	AUF(†)-36-6-(*)-HLR	25-5/16	AUF(†)-36-6-(*)-HSR	16-11/16	AUF(†)-36-6-(*)-HRR	25-5/16
30	24	AUF(†)-30-24-(*)-HLR	11-7/16	AUF(†)-30-24-(*)-HSR	9-3/4	AUF(†)-30-24-(*)-HRR	11-7/16
	18	AUF(†)-30-18-(*)-HLR	14-15/16	AUF(†)-30-18-(*)-HSR	11-7/16	AUF(†)-30-18-(*)-HRR	14-15/16
	12	AUF(†)-30-12-(*)-HLR	18-3/8	AUF(†)-30-12-(*)-HSR	13-3/16	AUF(†)-30-12-(*)-HRR	18-3/8
	9	AUF(†)-30-9-(*)-HLR	20-1/8	AUF(†)-30-9-(*)-HSR	14-1/16	AUF(†)-30-9-(*)-HRR	20-1/8
	6	AUF(†)-30-6-(*)-HLR	21-7/8	AUF(†)-30-6-(*)-HSR	14-15/16	AUF(†)-30-6-(*)-HRR	21-7/8
24	18	AUF(†)-24-18-(*)-HLR	11-7/16	AUF(†)-24-18-(*)-HSR	9-3/4	AUF(†)-24-18-(*)-HRR	11-7/16
	12	AUF(†)-24-12-(*)-HLR	14-15/16	AUF(†)-24-12-(*)-HSR	11-7/16	AUF(†)-24-12-(*)-HRR	14-15/16
	9	AUF(†)-24-9-(*)-HLR	16-11/16	AUF(†)-24-9-(*)-HSR	12-5/16	AUF(†)-24-9-(*)-HRR	16-11/16
	6	AUF(†)-24-6-(*)-HLR	18-3/8	AUF(†)-24-6-(*)-HSR	13-3/16	AUF(†)-24-6-(*)-HRR	18-3/8
18	12	AUF(†)-18-12-(*)-HLR	11-7/16	AUF(†)-18-12-(*)-HSR	9-3/4	AUF(†)-18-12-(*)-HRR	11-7/16
	9	AUF(†)-18-9-(*)-HLR	13-3/16	AUF(†)-18-9-(*)-HSR	10-5/8	AUF(†)-18-9-(*)-HRR	13-3/16
	6	AUF(†)-18-6-(*)-HLR	14-15/16	AUF(†)-18-6-(*)-HSR	11-7/16	AUF(†)-18-6-(*)-HRR	14-15/16
12	9	AUF(†)-12-39-(*)-HLR	9-3/4	AUF(†)-12-9-(*)-HSR	8-7/8	AUF(†)-12-9-(*)-HRR	9-3/4
	6	AUF(†)-12-6-(*)-HLR	11-7/16	AUF(†)-12-6-(*)-HSR	9-3/4	AUF(†)-12-6-(*)-HRR	11-7/16
9	6	AUF(†)-09-6-(*)-HLR	9-3/4	AUF(†)-09-6-(*)-HSR	8-7/8	AUF(†)-09-6-(*)-HRR	9-3/4

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 1 pair of splice plates with hardware.

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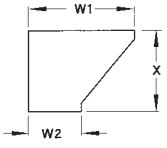
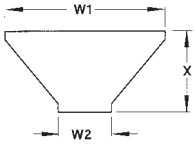
T&B® Cable Tray Aluminum

H-Style Fittings – Reducers

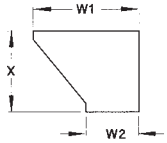
Offset Reducer - Right



Reducer - Straight



Offset Reducer - Left



Part Numbering System

AHF-6-42-36-L-HLR

- Fitting Material and Siderail
- Siderail Depth
- Width 1
- Width 2
- Bottom Style
- Fitting Type

Selection Guide

Tray Widths W1: **42, 36, 30, 24, 18, 12, 9**
Tray Widths W2: **36, 30, 24, 18, 12, 9, 6**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4”**– **7”**

Technical Specifications

Horizontal REDUCERS — H-Style

Widths W1	Widths W2	LH Reducer Catalogue Number	LH Reducer Dim. X	Straight Reducer (Concentric) Catalogue Number	Straight Reducer (Concentric) Dim. X	RH Reducer Catalogue Number	RH Reducer Dim. X
42	36	AHF(†)-42-36-(*)-HLR	11-7/16	AHF(†)-42-36-(*)-HSR	9-3/4	AHF(†)-42-36-(*)-HRR	11-7/16
	30	AHF(†)-42-30-(*)-HLR	14-15/16	AHF(†)-42-30-(*)-HSR	11-7/16	AHF(†)-42-30-(*)-HRR	14-15/16
	24	AHF(†)-42-24-(*)-HLR	18-3/8	AHF(†)-42-24-(*)-HSR	13-3/8	AHF(†)-42-24-(*)-HRR	18-3/8
	18	AHF(†)-42-18-(*)-HLR	21-7/8	AHF(†)-42-18-(*)-HSR	14-5/16	AHF(†)-42-18-(*)-HRR	21-7/8
	12	AHF(†)-42-12-(*)-HLR	25-5/16	AHF(†)-42-12-(*)-HSR	16-11/16	AHF(†)-42-12-(*)-HRR	25-5/16
	9	AHF(†)-42-9-(*)-HLR	27-1/16	AHF(†)-42-9-(*)-HSR	17-1/2	AHF(†)-42-9-(*)-HRR	27-1/16
	6	AHF(†)-42-6-(*)-HLR	28-13/16	AHF(†)-42-6-(*)-HSR	18-3/8	AHF(†)-42-6-(*)-HRR	28-13/16
36	30	AHF(†)-36-30-(*)-HLR	11-7/16	AHF(†)-36-30-(*)-HSR	9-3/4	AHF(†)-36-30-(*)-HRR	11-7/16
	24	AHF(†)-36-24-(*)-HLR	14-15/16	AHF(†)-36-24-(*)-HSR	11-7/16	AHF(†)-36-24-(*)-HRR	14-15/16
	18	AHF(†)-36-18-(*)-HLR	18-3/8	AHF(†)-36-18-(*)-HSR	13-3/8	AHF(†)-36-18-(*)-HRR	18-3/8
	12	AHF(†)-36-12-(*)-HLR	21-7/8	AHF(†)-36-12-(*)-HSR	14-5/16	AHF(†)-36-12-(*)-HRR	21-7/8
	9	AHF(†)-36-9-(*)-HLR	23-9/16	AHF(†)-36-9-(*)-HSR	15-13/16	AHF(†)-36-9-(*)-HRR	23-9/16
	6	AHF(†)-36-6-(*)-HLR	25-5/16	AHF(†)-36-6-(*)-HSR	16-11/16	AHF(†)-36-6-(*)-HRR	25-5/16
30	24	AHF(†)-30-24-(*)-HLR	11-7/16	AHF(†)-30-24-(*)-HSR	9-3/4	AHF(†)-30-24-(*)-HRR	11-7/16
	18	AHF(†)-30-18-(*)-HLR	14-15/16	AHF(†)-30-18-(*)-HSR	11-7/16	AHF(†)-30-18-(*)-HRR	14-15/16
	12	AHF(†)-30-12-(*)-HLR	18-3/8	AHF(†)-30-12-(*)-HSR	13-3/16	AHF(†)-30-12-(*)-HRR	18-3/8
	9	AHF(†)-30-9-(*)-HLR	20-1/8	AHF(†)-30-9-(*)-HSR	14-1/16	AHF(†)-30-9-(*)-HRR	20-1/8
	6	AHF(†)-30-6-(*)-HLR	21-7/8	AHF(†)-30-6-(*)-HSR	14-15/16	AHF(†)-30-6-(*)-HRR	21-7/8
24	18	AHF(†)-24-18-(*)-HLR	11-7/16	AHF(†)-24-18-(*)-HSR	9-3/4	AHF(†)-24-18-(*)-HRR	11-7/16
	12	AHF(†)-24-12-(*)-HLR	14-15/16	AHF(†)-24-12-(*)-HSR	11-7/16	AHF(†)-24-12-(*)-HRR	14-15/16
	9	AHF(†)-24-9-(*)-HLR	16-11/16	AHF(†)-24-9-(*)-HSR	12-5/16	AHF(†)-24-9-(*)-HRR	16-11/16
	6	AHF(†)-24-6-(*)-HLR	18-3/8	AHF(†)-24-6-(*)-HSR	13-3/16	AHF(†)-24-6-(*)-HRR	18-3/8
18	12	AHF(†)-18-12-(*)-HLR	11-7/16	AHF(†)-18-12-(*)-HSR	9-3/4	AHF(†)-18-12-(*)-HRR	11-7/16
	9	AHF(†)-18-9-(*)-HLR	13-3/16	AHF(†)-18-9-(*)-HSR	10-5/8	AHF(†)-18-9-(*)-HRR	13-3/16
	6	AHF(†)-18-6-(*)-HLR	14-15/16	AHF(†)-18-6-(*)-HSR	11-7/16	AHF(†)-18-6-(*)-HRR	14-15/16
12	9	AHF(†)-12-39-(*)-HLR	9-3/4	AHF(†)-12-9-(*)-HSR	8-7/8	AHF(†)-12-9-(*)-HRR	9-3/4
	6	AHF(†)-12-6-(*)-HLR	11-7/16	AHF(†)-12-6-(*)-HSR	9-3/4	AHF(†)-12-6-(*)-HRR	11-7/16
9	6	AHF(†)-09-6-(*)-HLR	9-3/4	AHF(†)-09-6-(*)-HSR	8-7/8	AHF(†)-09-6-(*)-HRR	9-3/4

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don’t mix H and U style components on the same job.)

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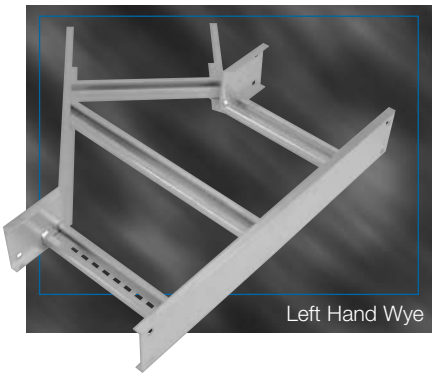
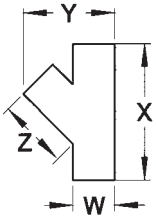
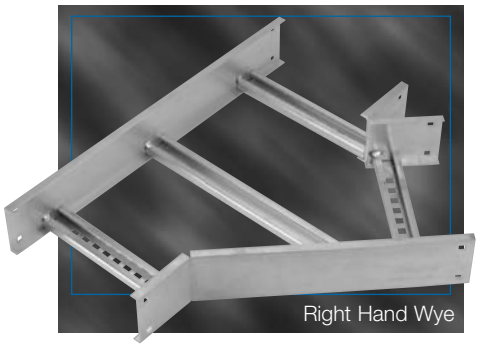
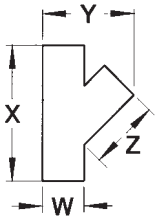
U-Style Fittings – Horizontal Wye – 45°









Part Numbering System

AUF-6-36-L-HYL

- AUF-6: Fitting Material and Siderail
- 36: Width
- L: Siderail Depth
- HYL: Fitting Type / Bottom Style

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

Technical Specifications

45° Horizontal WYE — U-Style

Width	Left Hand Wye Catalogue Number	Right Hand Wye Catalogue Number	Dimensions X	Y	Z
6	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	17-5/16	14-13/16	12-7/16
9	AUF(†)-09-(*)-HYL	AUF(†)-09-(*)-HYR	20-5/16	19-15/16	15-7/16
12	AUF(†)-12-(*)-HYL	AUF(†)-12-(*)-HYR	23-5/16	25	18-7/16
18	AUF(†)-18-(*)-HYL	AUF(†)-18-(*)-HYR	29-5/16	35-1/4	24-7/16
24	AUF(†)-24-(*)-HYL	AUF(†)-24-(*)-HYR	35-5/16	45-1/2	30-7/16
30	AUF(†)-30-(*)-HYL	AUF(†)-30-(*)-HYR	41-5/16	55-3/4	36-7/16
36	AUF(†)-36-(*)-HYL	AUF(†)-36-(*)-HYR	47-5/16	66	42-7/16

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

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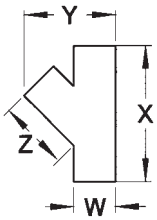
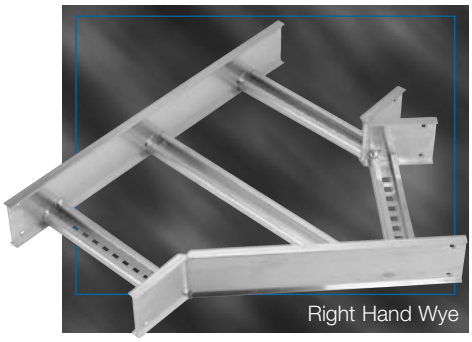
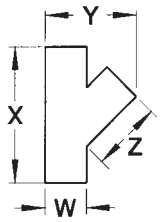
T&B® Cable Tray Aluminum

H-Style Fittings – Horizontal Wye – 45°







Part Numbering System

AHF-6-36-L-HYL

- AHF-6: Fitting Material and Siderail
- 36: Width
- L: Siderail Depth
- HYL: Fitting Type / Bottom Style

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

Technical Specifications

45° Horizontal WYE — H-Style

Width	Left Hand Wye Catalogue Number	Right Hand Wye Catalogue Number	Dimensions X	Y	Z
6	AHF(†)-06-(*)-HYL	AHF(†)-06-(*)-HYR	17-5/16	14-13/16	12-7/16
9	AHF(†)-09-(*)-HYL	AHF(†)-09-(*)-HYR	20-5/16	19-15/16	15-7/16
12	AHF(†)-12-(*)-HYL	AHF(†)-12-(*)-HYR	23-5/16	25	18-7/16
18	AHF(†)-18-(*)-HYL	AHF(†)-18-(*)-HYR	29-5/16	35-1/4	24-7/16
24	AHF(†)-24-(*)-HYL	AHF(†)-24-(*)-HYR	35-5/16	45-1/2	30-7/16
30	AHF(†)-30-(*)-HYL	AHF(†)-30-(*)-HYR	41-5/16	55-3/4	36-7/16
36	AHF(†)-36-(*)-HYL	AHF(†)-36-(*)-HYR	47-5/16	66	42-7/16

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

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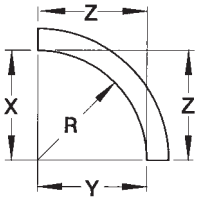
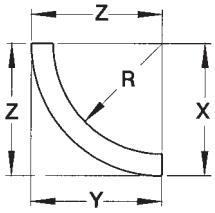
T&B® Cable Tray Aluminum

U-Style Fittings – Vertical Bends – 90°





Part Numbering System

AUF-7-30-L-VI90-36

Fitting Material and Siderail | Width | Fitting Type | Radius | Siderail Depth | Bottom Style | Degree

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**
Angle: **90°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

H

T&B® Cable Tray

Technical Specifications

90° Vertical BEND — U-Style

Radius R	Width	Catalogue Number	(+) VO Siderail Height 4" - 7" X	Y	Z	(+) VI Siderail Height 4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	AUF(†)-06-(*)-(+)90-12	12	12	12	16-3/16	16-3/16	16-3/16	17-1/16	17-1/16	17-1/16	18-1/4	18-1/4	18-1/4	19-1/4	19-1/4	19-1/4
	9	AUF(†)-09-(*)-(+)90-12															
	12	AUF(†)-12-(*)-(+)90-12															
	18	AUF(†)-18-(*)-(+)90-12															
	24	AUF(†)-24-(*)-(+)90-12															
	30	AUF(†)-30-(*)-(+)90-12															
	36	AUF(†)-36-(*)-(+)90-12															
	42	AUF(†)-42-(*)-(+)90-12															
24	6	AUF(†)-06-(*)-(+)90-24	24	24	24	28-3/16	28-3/16	28-3/16	29-1/16	29-1/16	29-1/16	30-1/4	30-1/4	30-1/4	31-1/4	31-1/4	31-1/4
	9	AUF(†)-09-(*)-(+)90-24															
	12	AUF(†)-12-(*)-(+)90-24															
	18	AUF(†)-18-(*)-(+)90-24															
	24	AUF(†)-24-(*)-(+)90-24															
	30	AUF(†)-30-(*)-(+)90-24															
	36	AUF(†)-36-(*)-(+)90-24															
	42	AUF(†)-42-(*)-(+)90-24															
36	6	AUF(†)-06-(*)-(+)90-36	36	36	36	40-3/16	40-3/16	40-3/16	41-1/16	41-1/16	41-1/16	42-1/4	42-1/4	42-1/4	43-1/4	43-1/4	43-1/4
	9	AUF(†)-09-(*)-(+)90-36															
	12	AUF(†)-12-(*)-(+)90-36															
	18	AUF(†)-18-(*)-(+)90-36															
	24	AUF(†)-24-(*)-(+)90-36															
	30	AUF(†)-30-(*)-(+)90-36															
	36	AUF(†)-36-(*)-(+)90-36															
	42	AUF(†)-42-(*)-(+)90-36															
48	6	AUF(†)-06-(*)-(+)90-48	48	48	48	52-3/16	52-3/16	52-3/16	53-1/16	53-1/16	53-1/16	54-1/4	54-1/4	54-1/4	55-1/4	55-1/4	55-1/4
	9	AUF(†)-09-(*)-(+)90-48															
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	18	AUF(†)-18-(*)-(+)90-48															
	24	AUF(†)-24-(*)-(+)90-48															
	30	AUF(†)-30-(*)-(+)90-48															
	36	AUF(†)-36-(*)-(+)90-48															
	42	AUF(†)-42-(*)-(+)90-48															

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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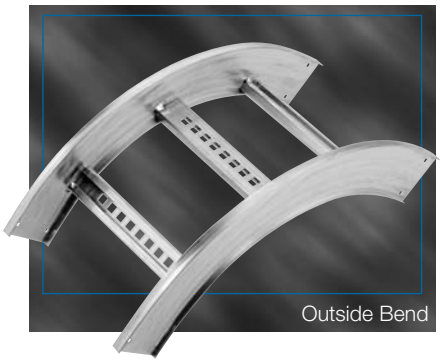
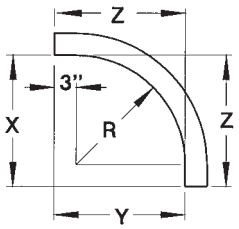
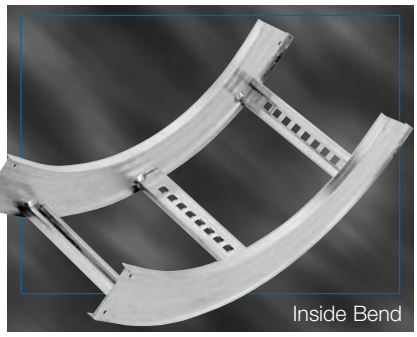
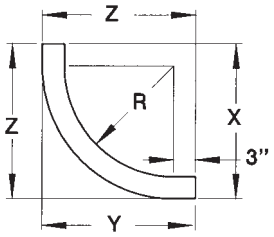
T&B® Cable Tray Aluminum

H-Style Fittings – Vertical Bends – 90°









Part Numbering System

AHF-7-30-L-VI90-36

Fitting Material and Siderail | Width | Fitting Type | Radius | Siderail Depth | Bottom Style | Degree

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**
Angle: **90°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

Technical Specifications

90° Vertical BEND — H-Style

Radius R	Width	Catalogue Number	(+) VO Siderail Height 4" - 7"			(+) VI Siderail Height 4"			5"			6"			7"		
			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	AHF(†)-06-(*)-(+)90-12	15	15	15	19-3/16	19-3/16	19-3/16	20-1/16	20-1/16	20-1/16	21-1/4	21-1/4	21-1/4	22-1/4	22-1/4	22-1/4
	9	AHF(†)-09-(*)-(+)90-12															
	12	AHF(†)-12-(*)-(+)90-12															
	18	AHF(†)-18-(*)-(+)90-12															
	24	AHF(†)-24-(*)-(+)90-12															
	30	AHF(†)-30-(*)-(+)90-12															
	36	AHF(†)-36-(*)-(+)90-12															
	42	AHF(†)-42-(*)-(+)90-12															
24	6	AHF(†)-06-(*)-(+)90-24	27	27	27	31-3/16	31-3/16	31-3/16	32-1/16	32-1/16	32-1/16	33-1/4	33-1/4	33-1/4	34-1/4	34-1/4	34-1/4
	9	AHF(†)-09-(*)-(+)90-24															
	12	AHF(†)-12-(*)-(+)90-24															
	18	AHF(†)-18-(*)-(+)90-24															
	24	AHF(†)-24-(*)-(+)90-24															
	30	AHF(†)-30-(*)-(+)90-24															
	36	AHF(†)-36-(*)-(+)90-24															
	42	AHF(†)-42-(*)-(+)90-24															
36	6	AHF(†)-06-(*)-(+)90-36	39	39	39	43-3/16	43-3/16	43-3/16	44-1/16	44-1/16	44-1/16	45-1/4	45-1/4	45-1/4	46-1/4	46-1/4	46-1/4
	9	AHF(†)-09-(*)-(+)90-36															
	12	AHF(†)-12-(*)-(+)90-36															
	18	AHF(†)-18-(*)-(+)90-36															
	24	AHF(†)-24-(*)-(+)90-36															
	30	AHF(†)-30-(*)-(+)90-36															
	36	AHF(†)-36-(*)-(+)90-36															
	42	AHF(†)-42-(*)-(+)90-36															
48	6	AHF(†)-06-(*)-(+)90-48	51	51	51	55-3/16	55-3/16	55-3/16	56-1/16	56-1/16	56-1/16	57-1/4	57-1/4	57-1/4	58-1/4	58-1/4	58-1/4
	9	AHF(†)-09-(*)-(+)90-48															
	12	AHF(†)-12-(*)-(+)90-48															
	18	AHF(†)-18-(*)-(+)90-48															
	24	AHF(†)-24-(*)-(+)90-48															
	30	AHF(†)-30-(*)-(+)90-48															
	36	AHF(†)-36-(*)-(+)90-48															
	42	AHF(†)-42-(*)-(+)90-48															

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

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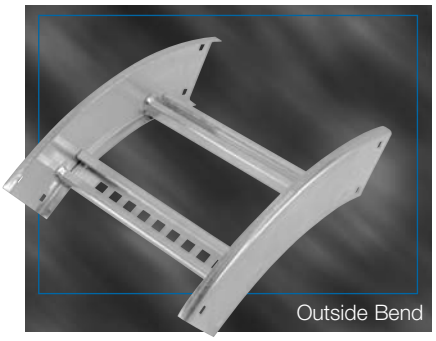
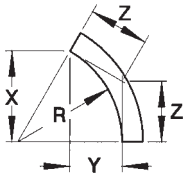
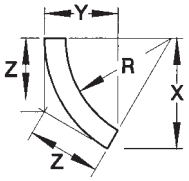
T&B® Cable Tray Aluminum

U-Style Fittings – Vertical Bends – 60°







Part Numbering System

AUF-7-36-V-VO60-24

Fitting Material and Siderail | Width | Fitting Type | Radius | Siderail Depth | Bottom Style | Degree

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**
Angle: **60°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

H

T&B® Cable Tray

Technical Specifications

60° Vertical BEND — U-Style

Radius R	Width	Catalogue Number	(+) VO Siderail Height 4" - 7" X	Y	Z	(+) VI Siderail Height 4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	AUF(†)-06-(*)-(+)60-12	10-3/8	6	6-15/16	14	10-3/16	9-5/16	14-13/16	11-1/16	9-7/8	15-13/16	12-1/4	10-1/2	16-5/8	13-1/4	11-1/8
	9	AUF(†)-09-(*)-(+)60-12															
	12	AUF(†)-12-(*)-(+)60-12															
	18	AUF(†)-18-(*)-(+)60-12															
	24	AUF(†)-24-(*)-(+)60-12															
	30	AUF(†)-30-(*)-(+)60-12															
	36	AUF(†)-36-(*)-(+)60-12															
	42	AUF(†)-42-(*)-(+)60-12															
24	6	AUF(†)-06-(*)-(+)60-24	20-6/8	12	13-7/8	24-3/8	16-3/16	16-1/4	25-3/16	17-1/16	16-13/16	26-3/16	18-1/4	17-7/16	27-1/16	19-1/4	18
	9	AUF(†)-09-(*)-(+)60-24															
	12	AUF(†)-12-(*)-(+)60-24															
	18	AUF(†)-18-(*)-(+)60-24															
	24	AUF(†)-24-(*)-(+)60-24															
	30	AUF(†)-30-(*)-(+)60-24															
	36	AUF(†)-36-(*)-(+)60-24															
	42	AUF(†)-42-(*)-(+)60-24															
36	6	AUF(†)-06-(*)-(+)60-36	31-1/8	18	20-13/16	34-13/16	22-3/16	23-3/16	35-9/16	23-1/16	23-11/16	36-9/16	24-1/4	24-3/8	37-7/16	25-1/4	24-15/16
	9	AUF(†)-09-(*)-(+)60-36															
	12	AUF(†)-12-(*)-(+)60-36															
	18	AUF(†)-18-(*)-(+)60-36															
	24	AUF(†)-24-(*)-(+)60-36															
	30	AUF(†)-30-(*)-(+)60-36															
	36	AUF(†)-36-(*)-(+)60-36															
	42	AUF(†)-42-(*)-(+)60-36															
48	6	AUF(†)-06-(*)-(+)60-48	41-5/8	24	27-11/16	45-3/16	28-3/16	30-1/8	45-15/16	29-1/16	30-5/8	47	30-1/4	31-5/16	47-13/16	31-1/4	31-7/8
	9	AUF(†)-09-(*)-(+)60-48															
	12	AUF(†)-12-(*)-(+)60-48															
	18	AUF(†)-18-(*)-(+)60-48															
	24	AUF(†)-24-(*)-(+)60-48															
	30	AUF(†)-30-(*)-(+)60-48															
	36	AUF(†)-36-(*)-(+)60-48															
	42	AUF(†)-42-(*)-(+)60-48															

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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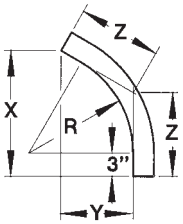
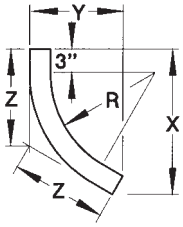
T&B® Cable Tray Aluminum

H-Style Fittings – Vertical Bends – 60°





Part Numbering System

AHF-7-36-V-VO60-24

- AHF-7: Fitting Material and Siderail
- 36: Width
- V: Bottom Style
- VO: Siderail Depth
- 60: Degree
- 24: Radius
- Fitting Type

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**
Angle: **60°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"– 7"**

Technical Specifications

60° Vertical BEND — H-Style

Radius R	Width	Catalogue Number	(+) VO Siderail Height 4" - 7" X	Y	Z	(+) VI Siderail Height 4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	AHF(†)-06-(*)-(+)60-12	14-7/8	8-5/8	9-15/16	18-1/2	12-3/4	12-5/16	19-5/16	13-11/16	12-7/8	20-5/16	14-13/16	13-1/2	21-1/8	15-13/16	14-1/8
	9	AHF(†)-09-(*)-(+)60-12															
	12	AHF(†)-12-(*)-(+)60-12															
	18	AHF(†)-18-(*)-(+)60-12															
	24	AHF(†)-24-(*)-(+)60-12															
	30	AHF(†)-30-(*)-(+)60-12															
	36	AHF(†)-36-(*)-(+)60-12															
	42	AHF(†)-42-(*)-(+)60-12															
24	6	AHF(†)-06-(*)-(+)60-24	25-5/16	14-5/8	16-7/8	28-7/8	18-3/4	19-1/4	29-11/16	19-11/16	19-13/16	30-11/16	20-13/16	20-7/16	31-9/16	21-13/16	21
	9	AHF(†)-09-(*)-(+)60-24															
	12	AHF(†)-12-(*)-(+)60-24															
	18	AHF(†)-18-(*)-(+)60-24															
	24	AHF(†)-24-(*)-(+)60-24															
	30	AHF(†)-30-(*)-(+)60-24															
	36	AHF(†)-36-(*)-(+)60-24															
	42	AHF(†)-42-(*)-(+)60-24															
36	6	AHF(†)-06-(*)-(+)60-36	35-11/16	20-5/8	23-13/16	39-5/16	24-3/4	26-3/16	40-1/16	25-11/16	26-11/16	41-1/16	26-13/16	27-3/8	41-15/16	27-13/16	27-15/16
	9	AHF(†)-09-(*)-(+)60-36															
	12	AHF(†)-12-(*)-(+)60-36															
	18	AHF(†)-18-(*)-(+)60-36															
	24	AHF(†)-24-(*)-(+)60-36															
	30	AHF(†)-30-(*)-(+)60-36															
	36	AHF(†)-36-(*)-(+)60-36															
	42	AHF(†)-42-(*)-(+)60-36															
48	6	AHF(†)-06-(*)-(+)60-48	46-1/16	26-5/8	30-11/16	49-11/16	30-3/4	33-1/8	50-7/16	31-11/16	33-5/8	51-1/2	32-13/16	34-5/16	52-5/16	33-13/16	34-7/8
	9	AHF(†)-09-(*)-(+)60-48															
	12	AHF(†)-12-(*)-(+)60-48															
	18	AHF(†)-18-(*)-(+)60-48															
	24	AHF(†)-24-(*)-(+)60-48															
	30	AHF(†)-30-(*)-(+)60-48															
	36	AHF(†)-36-(*)-(+)60-48															
	42	AHF(†)-42-(*)-(+)60-48															

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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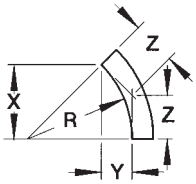
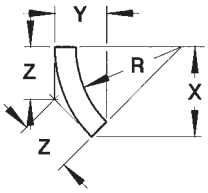
T&B® Cable Tray Aluminum

U-Style Fittings – Vertical Bends – 45°





Part Numbering System

AUF-5-24-S-VI45-48

- AUF-5: Fitting Material and Siderail
- 24: Width
- S: Siderail Depth
- VI: Fitting Type
- 45: Bottom Style
- 48: Degree
- Radius

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42
Angle: **45°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"– 7"**

Technical Specifications

45° Vertical BEND — U-Style

Radius R	Width	Catalogue Number	(+) VO Siderail Height 4" - 7" X	Y	Z	(+) VI Siderail Height 4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	AUF(†)-06-(*)-(+)45-12	8-1/2	3-1/2	5	11-7/16	7-11/16	6-11/16	12-1/16	8-5/8	7-1/16	12-7/8	9-3/4	7-9/16	13-9/16	10-3/4	7-15/16
	9	AUF(†)-09-(*)-(+)45-12															
	12	AUF(†)-12-(*)-(+)45-12															
	18	AUF(†)-18-(*)-(+)45-12															
	24	AUF(†)-24-(*)-(+)45-12															
	30	AUF(†)-30-(*)-(+)45-12															
	36	AUF(†)-36-(*)-(+)45-12															
	42	AUF(†)-42-(*)-(+)45-12															
24	6	AUF(†)-06-(*)-(+)45-24	17	7	9-15/16	19-15/16	11-3/16	11-11/16	20-9/16	12-1/8	12-1/16	21-3/8	13-1/4	12-1/2	22-1/16	14-1/4	12-15/16
	9	AUF(†)-09-(*)-(+)45-24															
	12	AUF(†)-12-(*)-(+)45-24															
	18	AUF(†)-18-(*)-(+)45-24															
	24	AUF(†)-24-(*)-(+)45-24															
	30	AUF(†)-30-(*)-(+)45-24															
	36	AUF(†)-36-(*)-(+)45-24															
	42	AUF(†)-42-(*)-(+)45-24															
36	6	AUF(†)-06-(*)-(+)45-36	25-7/16	10-9/16	14-15/16	28-7/16	14-3/4	16-5/8	29-1/16	15-5/8	17	29-7/8	16-3/4	17-1/2	30-9/16	17-3/4	17-7/8
	9	AUF(†)-09-(*)-(+)45-36															
	12	AUF(†)-12-(*)-(+)45-36															
	18	AUF(†)-18-(*)-(+)45-36															
	24	AUF(†)-24-(*)-(+)45-36															
	30	AUF(†)-30-(*)-(+)45-36															
	36	AUF(†)-36-(*)-(+)45-36															
	42	AUF(†)-42-(*)-(+)45-36															
48	6	AUF(†)-06-(*)-(+)45-48	33-15/16	14-1/16	19-7/8	36-7/8	18-1/4	21-5/8	37-9/16	19-1/8	22	38-3/8	20-1/4	22-7/16	39-1/16	21-1/4	22-7/8
	9	AUF(†)-09-(*)-(+)45-48															
	12	AUF(†)-12-(*)-(+)45-48															
	18	AUF(†)-18-(*)-(+)45-48															
	24	AUF(†)-24-(*)-(+)45-48															
	30	AUF(†)-30-(*)-(+)45-48															
	36	AUF(†)-36-(*)-(+)45-48															
	42	AUF(†)-42-(*)-(+)45-48															

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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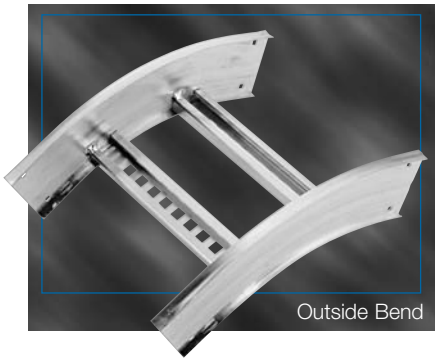
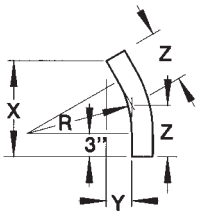
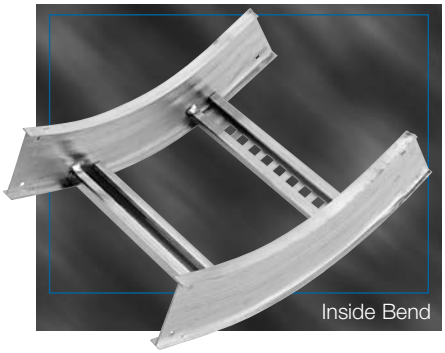
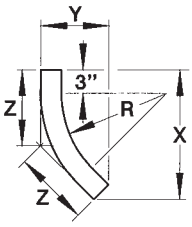
T&B® Cable Tray Aluminum

H-Style Fittings – Vertical Bends – 45°









Part Numbering System

AHF-5-24-S-VI45-48

Fitting Material and Siderail | Width | Fitting Type | Radius | Siderail Depth | Bottom Style | Degree

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42
Angle: **45°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"**– **7"**

Technical Specifications

45° Vertical BEND — H-Style

Radius R	Width	Catalogue Number	(+) VO Siderail Height 4" - 7" X	Y	Z	(+) VI Siderail Height 4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	AHF(†)-06-(*)-(+)45-12	13-5/8	5-5/8	8	16-9/16	9-13/16	9-11/16	17-3/16	10-11/16	10-1/16	18	11-7/8	10-9/16	18-11/16	12-7/8	10-15/16
	9	AHF(†)-09-(*)-(+)45-12															
	12	AHF(†)-12-(*)-(+)45-12															
	18	AHF(†)-18-(*)-(+)45-12															
	24	AHF(†)-24-(*)-(+)45-12															
	30	AHF(†)-30-(*)-(+)45-12															
	36	AHF(†)-36-(*)-(+)45-12															
	42	AHF(†)-42-(*)-(+)45-12															
24	6	AHF(†)-06-(*)-(+)45-24	22-1/16	9-1/8	12-15/16	25-1/16	13-5/16	14-11/16	25-11/16	14-1/4	15-1/16	26-1/2	15-3/8	15-1/2	27-3/16	16-3/8	15-15/16
	9	AHF(†)-09-(*)-(+)45-24															
	12	AHF(†)-12-(*)-(+)45-24															
	18	AHF(†)-18-(*)-(+)45-24															
	24	AHF(†)-24-(*)-(+)45-24															
	30	AHF(†)-30-(*)-(+)45-24															
	36	AHF(†)-36-(*)-(+)45-24															
	42	AHF(†)-42-(*)-(+)45-24															
36	6	AHF(†)-06-(*)-(+)45-36	30-9/16	12-11/16	17-15/16	33-1/2	16-13/16	19-5/8	34-3/16	17-3/4	20	35	18-7/8	20-1/2	35-11/16	19-7/8	20-7/8
	9	AHF(†)-09-(*)-(+)45-36															
	12	AHF(†)-12-(*)-(+)45-36															
	18	AHF(†)-18-(*)-(+)45-36															
	24	AHF(†)-24-(*)-(+)45-36															
	30	AHF(†)-30-(*)-(+)45-36															
	36	AHF(†)-36-(*)-(+)45-36															
	42	AHF(†)-42-(*)-(+)45-36															
48	6	AHF(†)-06-(*)-(+)45-48	39-1/16	16-3/16	22-7/8	42	20-3/8	24-5/8	42- 5/8	21-1/4	25	43-1/2	22-7/16	25-7/16	44-3/16	23-3/8	25-7/8
	9	AHF(†)-09-(*)-(+)45-48															
	12	AHF(†)-12-(*)-(+)45-48															
	18	AHF(†)-18-(*)-(+)45-48															
	24	AHF(†)-24-(*)-(+)45-48															
	30	AHF(†)-30-(*)-(+)45-48															
	36	AHF(†)-36-(*)-(+)45-48															
	42	AHF(†)-42-(*)-(+)45-48															

(†) Insert side rail depth.(*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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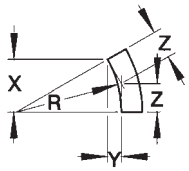
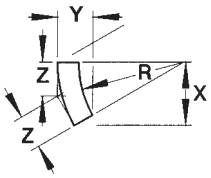
T&B® Cable Tray Aluminum

U-Style Fittings – Vertical Bends – 30°





Part Numbering System

AUF-6-12-L-VO30-24

- AUF-6: Fitting Material and Siderail
- 12: Width
- L: Fitting Type
- VO30: Radius
- 24: Siderail Depth
- L: Bottom Style
- VO30: Degree

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42
Angle: **30°**
Radius: **12, 24, 36, 48**
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"– 7"**

H

T&B® Cable Tray

Technical Specifications

30° Vertical BEND — U-Style

Radius R	Width	Catalogue Number	(+) VO Siderail Height 4" - 7" X	Y	Z	(+) VI Siderail Height 4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	AUF(†)-06-(*)-(+)30-12	6	1-5/8	3-3/16	8-1/16	5-13/16	4-5/16	8-9/16	6-11/16	4-9/16	9-1/8	7-7/8	4-7/8	9-5/8	8-13/16	5-1/8
	9	AUF(†)-09-(*)-(+)30-12															
	12	AUF(†)-12-(*)-(+)30-12															
	18	AUF(†)-18-(*)-(+)30-12															
	24	AUF(†)-24-(*)-(+)30-12															
	30	AUF(†)-30-(*)-(+)30-12															
	36	AUF(†)-36-(*)-(+)30-12															
	42	AUF(†)-42-(*)-(+)30-12															
24	6	AUF(†)-06-(*)-(+)30-24	12	3-3/16	6-7/16	14-1/16	7-3/8	7-9/16	14-9/16	8-5/16	7-13/16	15-1/8	9-7/16	8-1/8	15-5/8	10-7/16	8-3/8
	9	AUF(†)-09-(*)-(+)30-24															
	12	AUF(†)-12-(*)-(+)30-24															
	18	AUF(†)-18-(*)-(+)30-24															
	24	AUF(†)-24-(*)-(+)30-24															
	30	AUF(†)-30-(*)-(+)30-24															
	36	AUF(†)-36-(*)-(+)30-24															
	42	AUF(†)-42-(*)-(+)30-24															
36	6	AUF(†)-06-(*)-(+)30-36	18	4-13/16	9-5/8	20-1/16	9	10-3/4	20-9/16	9-7/8	11	21-1/8	11-1/16	11-5/16	21-5/8	12-1/16	11-9/16
	9	AUF(†)-09-(*)-(+)30-36															
	12	AUF(†)-12-(*)-(+)30-36															
	18	AUF(†)-18-(*)-(+)30-36															
	24	AUF(†)-24-(*)-(+)30-36															
	30	AUF(†)-30-(*)-(+)30-36															
	36	AUF(†)-36-(*)-(+)30-36															
	42	AUF(†)-42-(*)-(+)30-36															
48	6	AUF(†)-06-(*)-(+)30-48	24	6-7/16	12-7/8	26-1/16	10-5/8	14	26-9/16	11-1/2	14-1/4	27-1/8	12-11/16	14-9/16	27-5/8	13-5/8	14-13/16
	9	AUF(†)-09-(*)-(+)30-48															
	12	AUF(†)-12-(*)-(+)30-48															
	18	AUF(†)-18-(*)-(+)30-48															
	24	AUF(†)-24-(*)-(+)30-48															
	30	AUF(†)-30-(*)-(+)30-48															
	36	AUF(†)-36-(*)-(+)30-48															
	42	AUF(†)-42-(*)-(+)30-48															

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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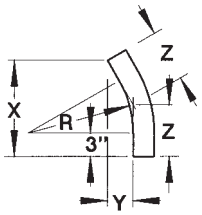
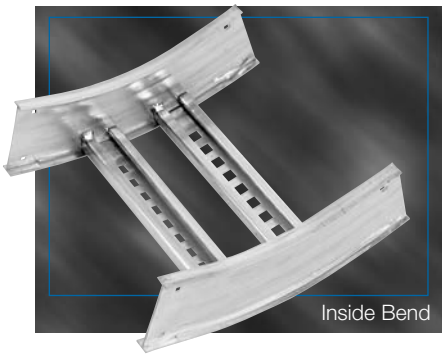
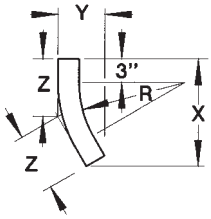
T&B® Cable Tray Aluminum

H-Style Fittings – Vertical Bends – 30°







Part Numbering System

AHF-6-12-L-VO30-24

- AHF-6: Fitting Material and Siderail
- 12: Width
- L: Siderail Depth
- VO: Bottom Style
- 30: Fitting Type
- 24: Degree

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Angle: **30°**

Radius: **12, 24, 36, 48**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: **4"**– **7"**

Technical Specifications

30° Vertical BEND — H-Style

Radius R	Width	Catalogue Number	(+) VO Siderail Height 4" - 7" X	Y	Z	(+) VI Siderail Height 4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	AHF(†)-06-(*)-(+)30-12	11-5/8	3-1/8	6-3/16	13-11/16	7-5/16	7-5/16	14-1/8	8-3/16	7-9/16	14-11/16	9-3/8	7-7/8	13-11/16	10-5/16	8-1/8
	9	AHF(†)-09-(*)-(+)30-12															
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	18	AHF(†)18-(*)-(+)30-12															
	24	AHF(†)-24-(*)-(+)30-12															
	30	AHF(†)-30-(*)-(+)30-12															
	36	AHF(†)-36-(*)-(+)30-12															
	42	AHF(†)-42-(*)-(+)30-12															
24	6	AHF(†)-06-(*)-(+)30-24	17-5/8	4-11/16	9-7/16	19-11/16	8-7/8	10-9/16	20-1/8	9-13/16	10-13/16	20-11/16	10-15/16	11-1/8	19-11/16	11-15/16	11-3/8
	9	AHF(†)-09-(*)-(+)30-24															
	12	AHF(†)-12-(*)-(+)30-24															
	18	AHF(†)-18-(*)-(+)30-24															
	24	AHF(†)-24-(*)-(+)30-24															
	30	AHF(†)-30-(*)-(+)30-24															
	36	AHF(†)-36-(*)-(+)30-24															
	42	AHF(†)-42-(*)-(+)30-24															
36	6	AHF(†)-06-(*)-(+)30-36	23-5/8	6-5/16	12-5/8	25-11/16	10-1/2	13-6/8	26-1/8	11-3/8	14	26-11/16	12-9/16	14-5/16	25-11/16	13-9/16	14-9/16
	9	AHF(†)-09-(*)-(+)30-36															
	12	AHF(†)-12-(*)-(+)30-36															
	18	AHF(†)-18-(*)-(+)30-36															
	24	AHF(†)-24-(*)-(+)30-36															
	30	AHF(†)-30-(*)-(+)30-36															
	36	AHF(†)-36-(*)-(+)30-36															
	42	AHF(†)-42-(*)-(+)30-36															
48	6	AHF(†)-06-(*)-(+)30-48	29-5/8	7-15/16	15-7/8	31-11/16	12-1/8	17	32-1/8	13	17-1/4	32-11/16	14-3/16	17-9/16	31-11/16	15-1/8	17-13/16
	9	AHF(†)-09-(*)-(+)30-48															
	12	AHF(†)-12-(*)-(+)30-48															
	18	AHF(†)-18-(*)-(+)30-48															
	24	AHF(†)-24-(*)-(+)30-48															
	30	AHF(†)-30-(*)-(+)30-48															
	36	AHF(†)-36-(*)-(+)30-48															
	42	AHF(†)-42-(*)-(+)30-48															

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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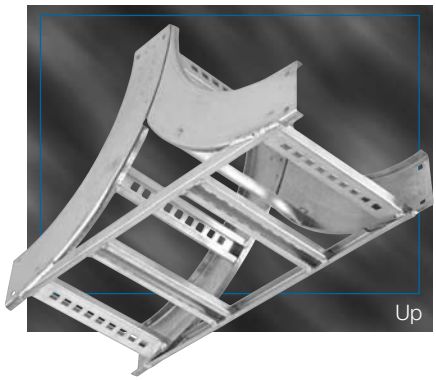
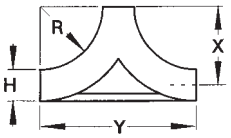
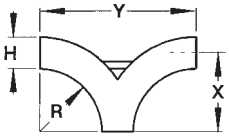
T&B® Cable Tray Aluminum

U-Style Fittings – Vertical Tee – Up / Down







Part Numbering System

AUF-6-24-L-VTD-12

- AUF-6: Fitting Material and Siderail
- 24: Width
- L: Siderail Depth
- VTD: Fitting Type
- 12: Radius
- L: Bottom Style

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Radius: **12, 24, 36, 48**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: **4"**– **7"**

H

T&B® Cable Tray

Technical Specifications

Vertical TEE Up/Down — U-Style

Radius R	Width	Catalogue Number	Catalogue Number	Siderail Height "H" 4" X	4" Y	5" X	5" Y	6" X	6" Y	7" X	7" Y
12	6	AUF(†)-06-(*)-VTU12	AUF-06-(*)-VTD12	14-1/16	28-3/16	14-9/16	29-1/16	15-1/8	30-1/4	15-5/8	31-1/4
	9	AUF(†)-09-(*)-VTU12	AUF-09-(*)-VTD12								
	12	AUF(†)-12-(*)-VTU12	AUF-12-(*)-VTD12								
	18	AUF(†)-18-(*)-VTU12	AUF-18-(*)-VTD12								
	24	AUF(†)-24-(*)-VTU12	AUF-24-(*)-VTD12								
	30	AUF(†)-30-(*)-VTU12	AUF-30-(*)-VTD12								
	36	AUF(†)-36-(*)-VTU12	AUF-36-(*)-VTD12								
	42	AUF(†)-42-(*)-VTU12	AUF-42-(*)-VTD12								
24	6	AUF(†)-06-(*)-VTU24	AUF-06-(*)-VTD24	26-1/16	52-3/16	26-9/16	53-1/16	27-1/8	54-1/4	27-5/8	55-1/4
	9	AUF(†)-09-(*)-VTU24	AUF-09-(*)-VTD24								
	12	AUF(†)-12-(*)-VTU24	AUF-12-(*)-VTD24								
	18	AUF(†)-18-(*)-VTU24	AUF-18-(*)-VTD24								
	24	AUF(†)-24-(*)-VTU24	AUF-24-(*)-VTD24								
	30	AUF(†)-30-(*)-VTU24	AUF-30-(*)-VTD24								
	36	AUF(†)-36-(*)-VTU24	AUF-36-(*)-VTD24								
	42	AUF(†)-42-(*)-VTU24	AUF-42-(*)-VTD24								
36	6	AUF(†)-06-(*)-VTU36	AUF-06-(*)-VTD36	38-1/16	76-3/16	38-9/16	77-1/16	39-1/8	78-1/4	39-5/8	79-1/4
	9	AUF(†)-09-(*)-VTU36	AUF-09-(*)-VTD36								
	12	AUF(†)-12-(*)-VTU36	AUF-12-(*)-VTD36								
	18	AUF(†)-18-(*)-VTU36	AUF-18-(*)-VTD36								
	24	AUF(†)-24-(*)-VTU36	AUF-24-(*)-VTD36								
	30	AUF(†)-30-(*)-VTU36	AUF-30-(*)-VTD36								
	36	AUF(†)-36-(*)-VTU36	AUF-36-(*)-VTD36								
	42	AUF(†)-42-(*)-VTU36	AUF-42-(*)-VTD36								
48	6	AUF(†)-06-(*)-VTU48	AUF-06-(*)-VTD48	50-1/16	100-3/16	50 9/16	101-1/16	51-1/8	102-1/4	51-5/8	103-1/4
	9	AUF(†)-09-(*)-VTU48	AUF-09-(*)-VTD48								
	12	AUF(†)-12-(*)-VTU48	AUF-12-(*)-VTD48								
	18	AUF(†)-18-(*)-VTU48	AUF-18-(*)-VTD48								
	24	AUF(†)-24-(*)-VTU48	AUF-24-(*)-VTD48								
	30	AUF(†)-30-(*)-VTU48	AUF-30-(*)-VTD48								
	36	AUF(†)-36-(*)-VTU48	AUF-36-(*)-VTD48								
	42	AUF(†)-42-(*)-VTU48	AUF-42-(*)-VTD48								

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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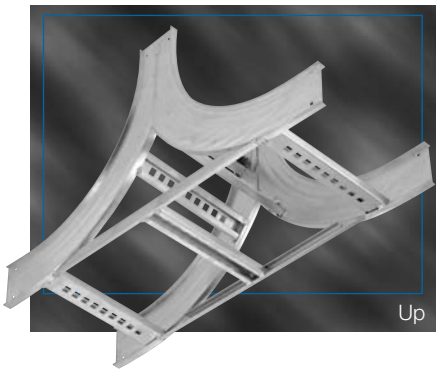
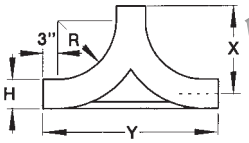
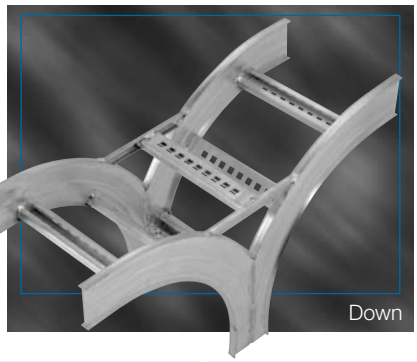
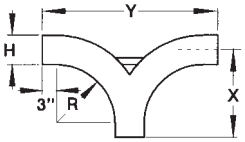
T&B® Cable Tray Aluminum

H-Style Fittings – Vertical Tee – Up / Down









Part Numbering System

AHF-6-24-L-VTD-12

- AHF-6: Fitting Material and Siderail
- 24: Width
- L: Siderail Depth
- VTD: Bottom Style
- 12: Fitting Type and Radius

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Radius: **12, 24, 36, 48**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: **4"– 7"**

Technical Specifications

Vertical TEE Up/Down — H-Style

Radius R	Width	Catalogue Number	Catalogue Number	Siderail Height "H" 4" X	4" Y	5" X	5" Y	6" X	6" Y	7" X	7" Y
12	6	AHF(†)-06-(*)-VTU12	AHF-06-(*)-VTD12	17-1/16	34-3/16	17-9/16	35-1/16	18-1/8	36-1/4	18-5/8	37-1/4
	9	AHF(†)-09-(*)-VTU12	AHF-09-(*)-VTD12								
	12	AHF(†)-12-(*)-VTU12	AHF-12-(*)-VTD12								
	18	AHF(†)-18-(*)-VTU12	AHF-18-(*)-VTD12								
	24	AHF(†)-24-(*)-VTU12	AHF-24-(*)-VTD12								
	30	AHF(†)-30-(*)-VTU12	AHF-30-(*)-VTD12								
	36	AHF(†)-36-(*)-VTU12	AHF-36-(*)-VTD12								
	42	AHF(†)-42-(*)-VTU12	AHF-42-(*)-VTD12								
24	6	AHF(†)-06-(*)-VTU24	AHF-06-(*)-VTD24	29-1/16	58-3/16	29-9/16	59-1/16	30-1/8	60-1/4	30-5/8	61-1/4
	9	AHF(†)-09-(*)-VTU24	AHF-09-(*)-VTD24								
	12	AHF(†)-12-(*)-VTU24	AHF-12-(*)-VTD24								
	18	AHF(†)-18-(*)-VTU24	AHF-18-(*)-VTD24								
	24	AHF(†)-24-(*)-VTU24	AHF-24-(*)-VTD24								
	30	AHF(†)-30-(*)-VTU24	AHF-30-(*)-VTD24								
	36	AHF(†)-36-(*)-VTU24	AHF-36-(*)-VTD24								
	42	AHF(†)-42-(*)-VTU24	AHF-42-(*)-VTD24								
36	6	AHF(†)-06-(*)-VTU36	AHF-06-(*)-VTD36	41-1/16	82-3/16	41-9/16	83-1/16	42-1/8	84-1/4	42-5/8	85-1/4
	9	AHF(†)-09-(*)-VTU36	AHF-09-(*)-VTD36								
	12	AHF(†)-12-(*)-VTU36	AHF-12-(*)-VTD36								
	18	AHF(†)-18-(*)-VTU36	AHF-18-(*)-VTD36								
	24	AHF(†)-24-(*)-VTU36	AHF-24-(*)-VTD36								
	30	AHF(†)-30-(*)-VTU36	AHF-30-(*)-VTD36								
	36	AHF(†)-36-(*)-VTU36	AHF-36-(*)-VTD36								
	42	AHF(†)-42-(*)-VTU36	AHF-42-(*)-VTD36								
48	6	AHF(†)-06-(*)-VTU48	AHF-06-(*)-VTD48	53-1/16	106-3/16	53-9/16	107-1/16	54-1/8	108-1/4	54-5/8	109-1/4
	9	AHF(†)-09-(*)-VTU48	AHF-09-(*)-VTD48								
	12	AHF(†)-12-(*)-VTU48	AHF-12-(*)-VTD48								
	18	AHF(†)-18-(*)-VTU48	AHF-18-(*)-VTD48								
	24	AHF(†)-24-(*)-VTU48	AHF-24-(*)-VTD48								
	30	AHF(†)-30-(*)-VTU48	AHF-30-(*)-VTD48								
	36	AHF(†)-36-(*)-VTU48	AHF-36-(*)-VTD48								
	42	AHF(†)-42-(*)-VTU48	AHF-42-(*)-VTD48								

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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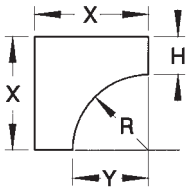
T&B® Cable Tray Aluminum

U-Style Fittings – Cable Support



Part Numbering System

AUF-5-24-V-CS-12

- AUF-5: Fitting Material and Siderail
- 24: Width
- V: Fitting Type
- CS: Siderail Depth
- 12: Radius
- Bottom Style

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Radius: **12, 24, 36, 48**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: **4"**– **7"**

Technical Specifications

H

T&B® Cable Tray

Vertical TEE Up/Down — U-Style

Radius R	Width	Catalogue Number	Siderail Height "H" 4" X	4" Y	5" X	5" Y	6" X	6" Y	7" X	7" Y
12	6	AUF(†)-06-(*)-CS12	16-3/16	12	17-1/16	12	18-1/4	12	19-1/4	12
	9	AUF(†)-09-(*)-CS12								
	12	AUF(†)-12-(*)-CS12								
	18	AUF(†)-18-(*)-CS12								
	24	AUF(†)-24-(*)-CS12								
	30	AUF(†)-30-(*)-CS12								
	36	AUF(†)-36-(*)-CS12								
	42	AUF(†)-42-(*)-CS12								
24	6	AUF(†)-06-(*)-CS24	28-3/16	24	29-1/16	24	30-1/4	24	31-1/4	24
	9	AUF(†)-09-(*)-CS24								
	12	AUF(†)-12-(*)-CS24								
	18	AUF(†)-18-(*)-CS24								
	24	AUF(†)-24-(*)-CS24								
	30	AUF(†)-30-(*)-CS24								
	36	AUF(†)-36-(*)-CS24								
	42	AUF(†)-42-(*)-CS24								
36	6	AUF(†)-06-(*)-CS36	40-3/16	36	41-1/16	36	42-1/4	36	43-1/4	36
	9	AUF(†)-09-(*)-CS36								
	12	AUF(†)-12-(*)-CS36								
	18	AUF(†)-18-(*)-CS36								
	24	AUF(†)-24-(*)-CS36								
	30	AUF(†)-30-(*)-CS36								
	36	AUF(†)-36-(*)-CS36								
	42	AUF(†)-42-(*)-CS36								
48	6	AUF(†)-06-(*)-CS48	52-3/16	48	53-1/16	48	54-1/4	48	55-1/4	48
	9	AUF(†)-09-(*)-CS48								
	12	AUF(†)-12-(*)-CS48								
	18	AUF(†)-18-(*)-CS48								
	24	AUF(†)-24-(*)-CS48								
	30	AUF(†)-30-(*)-CS48								
	36	AUF(†)-36-(*)-CS48								
	42	AUF(†)-42-(*)-CS48								

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

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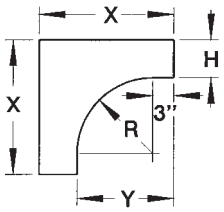
H-Style Fittings – Cable Support



Part Numbering System

AHF-5-24-V-CS-12

- AHF-5: Fitting Material and Siderail
- 24: Width
- V: Bottom Style
- CS: Siderail Depth
- 12: Fitting Radius

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Radius: **12, 24, 36, 48**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: **4"**– **7"**

Technical Specifications

Vertical TEE Up/Down — H-Style

Radius R	Width	Catalogue Number	Siderail Height "H" 4" X	4" Y	5" X	5" Y	6" X	6" Y	7" X	7" Y
12	6	AHF(†)-06-(*)-CS12	19-3/16	15	20-1/16	15	21-1/4	15	22-1/4	15
	9	AHF(†)-09-(*)-CS12								
	12	AHF(†)-12-(*)-CS12								
	18	AHF(†)-18-(*)-CS12								
	24	AHF(†)-24-(*)-CS12								
	30	AHF(†)-30-(*)-CS12								
	36	AHF(†)-36-(*)-CS12								
	42	AHF(†)-42-(*)-CS12								
24	6	AHF(†)-06-(*)-CS24	31-3/16	27	32-1/16	27	33-1/4	27	34-1/4	27
	9	AHF(†)-09-(*)-CS24								
	12	AHF(†)-12-(*)-CS24								
	18	AHF(†)-18-(*)-CS24								
	24	AHF(†)-24-(*)-CS24								
	30	AHF(†)-30-(*)-CS24								
	36	AHF(†)-36-(*)-CS24								
	42	AHF(†)-42-(*)-CS24								
36	6	AHF(†)-06-(*)-CS36	43-3/16	39	44-1/16	39	45-1/4	39	46-1/4	39
	9	AHF(†)-09-(*)-CS36								
	12	AHF(†)-12-(*)-CS36								
	18	AHF(†)-18-(*)-CS36								
	24	AHF(†)-24-(*)-CS36								
	30	AHF(†)-30-(*)-CS36								
	36	AHF(†)-36-(*)-CS36								
	42	AHF(†)-42-(*)-CS36								
48	6	AHF(†)-06-(*)-CS48	55-3/16	51	56-1/16	51	57-1/4	51	58-1/4	51
	9	AHF(†)-09-(*)-CS48								
	12	AHF(†)-12-(*)-CS48								
	18	AHF(†)-18-(*)-CS48								
	24	AHF(†)-24-(*)-CS48								
	30	AHF(†)-30-(*)-CS48								
	36	AHF(†)-36-(*)-CS48								
	42	AHF(†)-42-(*)-CS48								

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

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T&B® Cable Tray Aluminum

Covers – Straight Cover Number Selection

Tray Covers

— Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

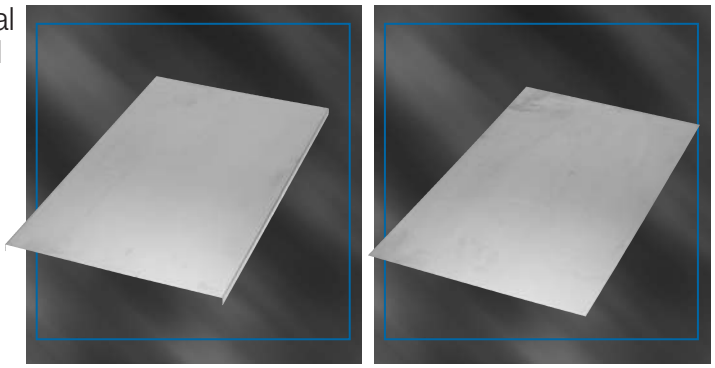
Cover mounting hardware must be ordered separately.

Solid Covers

— These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange.

Flanged covers have ½" flange.

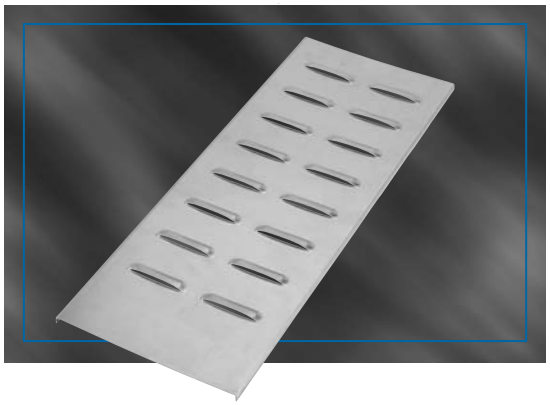
Cover mounting hardware must be ordered separately.



Ventilated Flanged Covers

— This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.



Peaked Flanged Covers

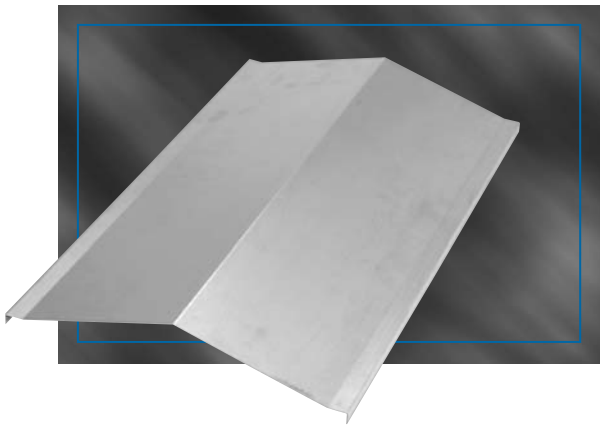
— Peaked covers offer mechanical protection reduce pooling of liquids on the cover and accumulation of snow or ice.

Peaked covers have 15° rise.

Covers greater than 12" wide available in 72" and 3m lengths only.

Fittings covers are not available in Peaked Flanged.

Cover mounting hardware must be ordered separately.



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Covers – Straight Cover Number Selection

Straight Cover Number Selection

(ABW-1-12)-SNC-72

Material	Cover Series	Width	Cover Type	Length
ABW • Aluminum Accessory	**1** • For tray series: AU04, AU14, AH04, AH14 **2** • For tray series: AU24, AU36, AU44, AU54 AU25, AU35, AU45, AU16, AU26, AH24, AH36, AH44, AH54, AH25, AH35, AH45, AH16, AH26 **3** • For tray series: AU36, AU46, AU56, AU66 AU27, AU37, AH36, AH46, AH56, AH66 AH27, AH37	**06** • (6") **09** • (9") **12** • (12") **18** • (18") **24** • (24") **30** • (30") **36** • (36") **42** • (42")	**SNC** • Solid Non-Flanged Cover **SFC** • Solid Flanged Cover **VFC** • Ventilated Flanged Cover ***PFC** • Peaked Flanged Cover	**72** • (72") **144** • (12ft) **3m**

* Peaked covers greater than 12" wide available in 72" and 3m lengths only.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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Covers – Fitting Cover Number Selection

Fitting Cover Number Selection

A U W - 1 2 - S N C - H B 9 0 - 2 4

Material	Fitting Style	Width	Cover Type	Fitting Type	Degree	Radius
A • Aluminum	**U** • U-Beam **H** • H-Beam	**06** • (6") **09** • (9") **12** • (12") **18** • (18") **24** • (24") **30** • (30") **36** • (36") **42** • (42")	**SNC** • Solid Non-Flanged Cover **SFC** • Solid Flanged Cover **VFC** • Ventilated Flanged Cover	**HB** • Horizontal Bend **VI** • Vertical Inside Bend	**30** • (30°) **45** • (45°) **60** • (60°) **90** • (90°)	**12** • (12") **24** • (24") **36** • (36") **48** • (48")

Fitting Cover Number Selection

A U W - 1 8 - 1 2 - S N C - R T - 1 2

Material	Fitting Style	Width 1	Width 2	Cover Type	Fitting Type	Radius *
A • Aluminum	**U** • U-Beam **H** • H-Beam	**06** • (6") **09** • (9") **12** • (12") **18** • (18") **24** • (24") **30** • (30") **36** • (36") **42** • (42")	**06** • (6") **09** • (9") **12** • (12") **18** • (18") **24** • (24") **30** • (30") **36** • (36") **42** • (42")	**SNC** • Solid Non-Flanged Cover **SFC** • Solid Flanged Cover **VFC** • Ventilated Flanged Cover	**RT** • Horizontal Reduce Tee **ET** • Horizontal Expand Tee **EX** • Horizontal Expand Tee & Reduce Cross **HSR** • Horizontal Straight Reducer **HLR** • Horizontal Left Reducer **HRR** • Horizontal Right Reducer **CS** • Cable Support **HT** • Horizontal Tee **HX** • Horizontal Cross **VTU** • Vertical Tee Up **HYR** • Horizontal Wye Right **HYL** • Horizontal Wye Left	**12** • (12") **24** • (24") **36** • (36") **48** • (48")

NOTE: For ET and EX, W2 > W1. For RT, HSR, HLR, HRR, W1 > W2.

* Radius not required for HSR, HLR, HRR, HYR, HYL

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Covers – Fitting Cover Number Selection

Fitting Cover Number Selection

A U W - 4 - 1 2 - S N C - V O 9 0 - 2 4

Material	Fitting Style	Siderail Height	Width 2	Cover Type	Fitting Type	*Degree	Radius
A • Aluminum	**U** • U-Beam **H** • H-Beam	**4** **5** **6** **7**	**06** • (6") **09** • (9") **12** • (12") **18** • (18") **24** • (24") **30** • (30") **36** • (36") **42** • (42")	**SNC** • Solid Non-Flanged Cover **SFC** • Solid Flanged Cover **VFC** • Ventilated Flanged Cover	**VO** • Vertical Outside Bend **VTD** • Vertical Tee Down	**30** • (30°) **45** • (45°) **60** • (60°) **90** • (90°)	**12** • (12") **24** • (24") **36** • (36") **48** • (48")

* Not required for VTD.

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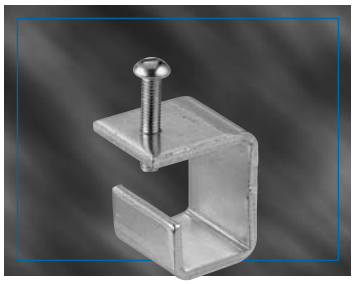
T&B® Cable Tray Aluminum

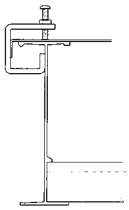
Accessories – For Covers

Quantity of Standard Cover Clamps Required	
Straight section (6 ft.)	4 pcs.
Straight section (12 ft./ 3m)	6 pcs.
Horizontal and Vertical Bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.

NOTE: When using the Heavy Duty Cover Clamp, only half the quantity of pieces are required.

Economical Cover Clamp





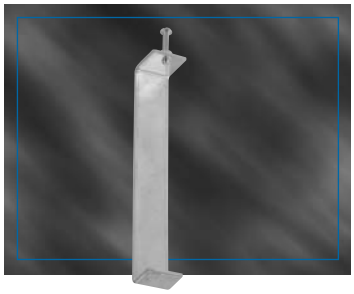
Rigid indoor cover clamp for flat and flanged covers.

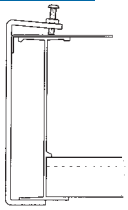
Catalogue Number	Material	Siderail Height
ABW-SCC	Zinc Plated Steel	All Sizes

Cannot be used with U-Style fittings.

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Universal Fitting Cover Clamp



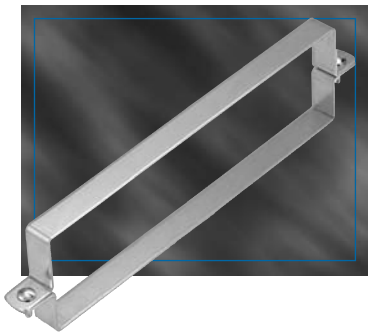


Rigid indoor cover clamp for flat and flanged covers.

Catalogue Number	Material	Siderail Height
AUW(*)FCC	Zinc Plated Steel	4" 5" 6" 7"

(*) Insert siderail height

Heavy Duty Cover Clamp



Wraparound design offers added protection for rugged applications and outdoor conditions.

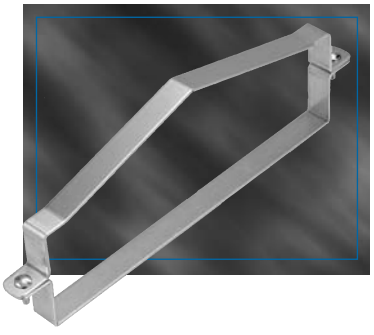
Hardware included.

Catalogue Number	Material	Siderail Height	*Width of Tray
ABW4(*)HCC	Aluminum	4"	06"
ABW5(*)HCC		5"	09"
ABW6(*)HCC		6"	12"
ABW7(*)HCC		7"	18"
			24"
			30"
			36"
			42"

(*) Insert width of tray

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Heavy Duty Peaked Cover Clamp



Wraparound design formed to fit peaked cover for outdoor applications.

Hardware included.

Catalogue Number	Material	Siderail Height	*Width of Tray
ABW4(*)HPC	Aluminum	4"	06"
ABW5(*)HPC		5"	09"
ABW6(*)HPC		6"	12"
ABW7(*)HPC		7"	18"
			24"
			30"
			36"
			42"

(*) Insert width of tray

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

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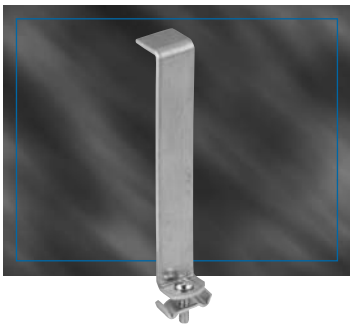
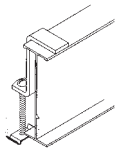
Accessories – For Covers

Combination Hold Down Cover Clamp



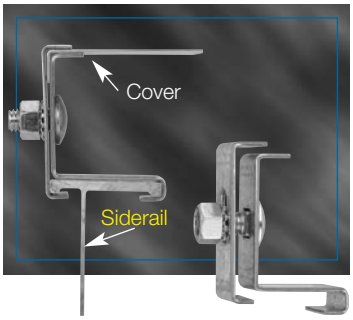


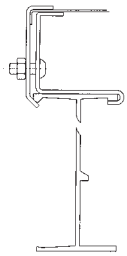
Designed to secure flat and flanged covers with hold down feature.

Catalogue Number	Material	Siderail Height
ABW-4-CCC	Aluminum	4"
ABW-5-CCC		5"
ABW-6-CCC		6"
ABW-7-CCC		7"

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Raised Cover Clamp





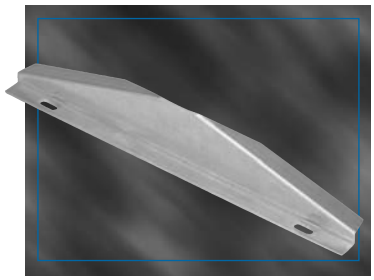
Designed to raise cover above tray for added ventilation.

Catalogue Number	Material	*Cover Series	+Cover Offset
ABW(*) (+) RCC	Zinc Plated Steel	1, 2, 3	1"
			2"
			3"

(*) Cover series
(+) Cover offset

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Peaked End Cap



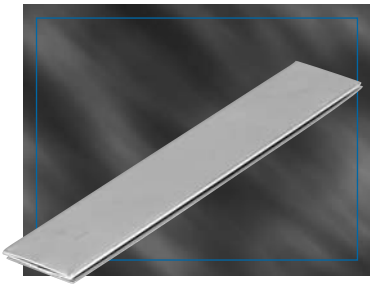
Used for transition between peaked covers to straight covers.

Catalogue Number	Material	*Width of Tray
ABW(*) PEC	Aluminum	6"
		9"
		12"
		18"
		24"
		30"
		36"
		42"

(*) Width of tray

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Cover Joint Strip



Strip used for joining covers end to end.

Catalogue Number	Material	*Width of Tray
ABW(*) SCS	Aluminum	6"
		9"
		12"
		18"
		24"
		30"
		36"
		42"

(*) Width of Tray

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T&B® Cable Tray Aluminum

Accessories – Splice Plates

Snap-In Splice Plate

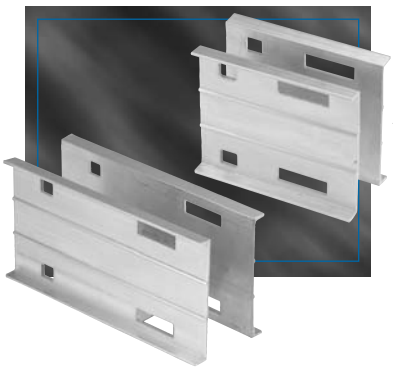
Designed to lock into place for easy alignment and installation.

Packaged in pairs with zinc plated hardware.

Provided as standard with each straight and/or fitting.

Catalogue Number	Material	Siderail Height
AUW-4-SSP	Aluminum	4"
AUW-5-SSP		5"
AUW-6-SSP		6"
AUW-7-SSP		7"
AHW-4-SSP	Aluminum	4"
AHW-5-SSP		5"
AHW-6-SSP		6"
AHW-7-SSP		7"

Snap-In Expansion Splice Plate

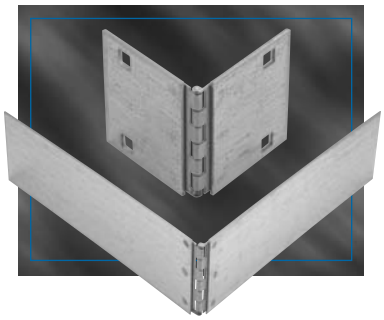


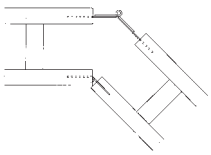
Allows for a 1" expansion or contraction of tray system.

Packaged in pairs with zinc plated hardware.

Catalogue Number	Material	Siderail Height
AUW-4-ESP	Aluminum	4"
AUW-5-ESP		5"
AUW-6-ESP		6"
AUW-7-ESP		7"
AHW-4-ESP	Aluminum	4"
AHW-5-ESP		5"
AHW-6-ESP		6"
AHW-7-ESP		7"

Horizontal Adjustable Plate





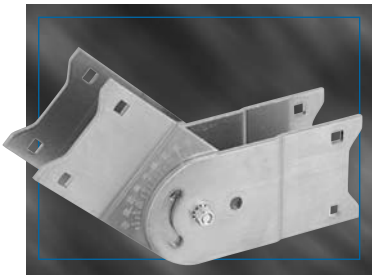
Adjustable hinge plates provide maximum horizontal installation flexibility.

Furnished in pairs with hardware.

Catalogue Number	Material	*Siderail Height	For Tray Widths
AUW(*)24HSP AHW(*)24HSP	Aluminum	4" 5" 6" 7"	6" to 24" inclusive
AUW(*)42HSP AHW(*)42HSP	Aluminum	4" 5" 6" 7"	30" to 42" inclusive

(*) Tray Height.

Vertical Adjustable Plate



Hinged vertical plates provide maximum flexibility for changes in elevation.

Furnished in pairs with hardware.

Catalogue Number	Material	Siderail Height
ABW-4-VSP	Aluminum	4"
ABW-5-VSP		5"
ABW-6-VSP		6"
ABW-7-VSP		7"

IMPORTANT NOTE:
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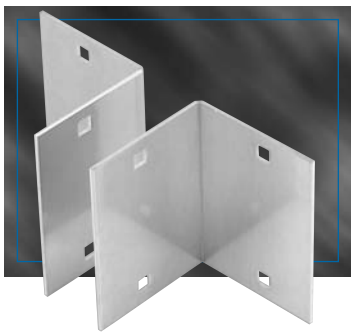
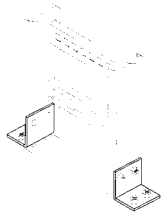
Accessories – Splice Plates

Box to Tray Plates





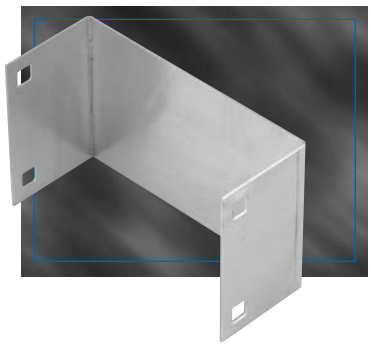
Designed to secure tray to electrical panels or boxes, walls or end supports.

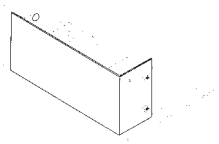
Furnished in pairs with hardware.

Catalogue Number	Material	Siderail Height
ABW-4-BSP	Aluminum	4"
ABW-5-BSP		5"
ABW-6-BSP		6"
ABW-7-BSP		7"

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Closure End Plate





Provides closure for any tray end.

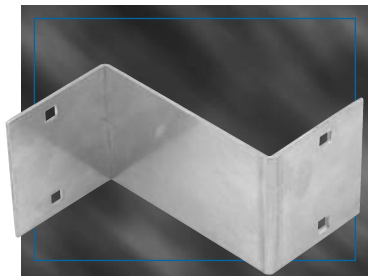
Packaged with hardware.

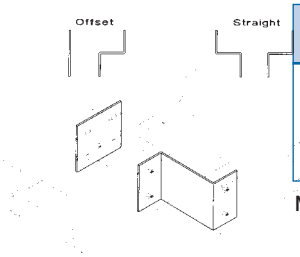
Catalogue Number	Material	Siderail Height	*Widths of Tray
ABW-4(*)-CEP	Aluminum	4"	06"
ABW-5(*)-CEP		5"	09"
ABW-6(*)-CEP		6"	12"
ABW-7(*)-CEP		7"	18"
			24"
			30"
			36"
			42"

(*) Insert width.

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Reducing Splice Plate





Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction.

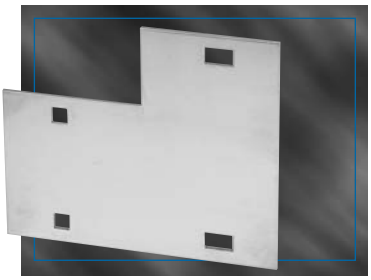
Packaged with hardware.

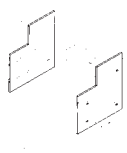
Catalogue Number	Material	Siderail Height	Reduction (inches)
ABW-4(*)-RSP	Aluminum	4"	1-1/2, 3, 4-1/2, 6, 7-1/2, 9,
ABW-5(*)-RSP		5"	10-1/2, 12, 13-1/2, 15
ABW-6(*)-RSP		6"	16-1/2, 18, 21, 24, 27
ABW-7(*)-RSP		7"	30, 33, 36

NOTE: (*) For offset reduction: insert width to be reduced
For straight reduction: insert 1/2 width to be reduced (2 required)

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Step Down Splice Plate





Connects siderails of different heights.

Hardware included.

Catalogue Number	Material	Siderail Height
AUW(*)(**)SDS	Aluminum	4"
AHW(*)(**)SDS		5"
		6"
		7"

(*) Siderail Height 1
(**) Siderail Height 2
NOTE: Siderail Height 1 > Siderail Height 2.

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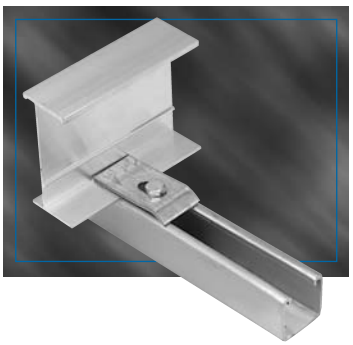
Standard Hold Down Clamp



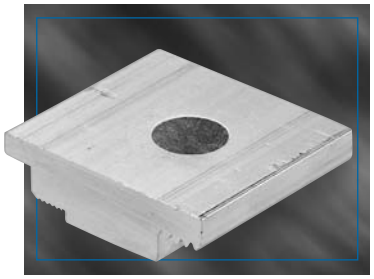
Designed for most indoor installations.

Easy to use and install.

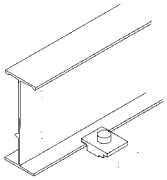
Order ⅜" hardware separately.

Catalogue Number	Material
PGW-SHC	Zinc Plated Steel
S6W-SHC	316 Stainless

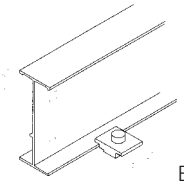
Combination Hold Down / Expansion Clamp



Order 3/8" hardware separately.



Hold down clamp

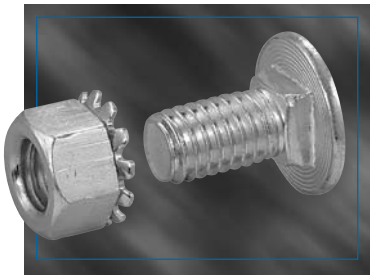


Expansion Guide

Catalogue Number	Material
ABW-HEC	Aluminum

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Aluminum Tray Hardware

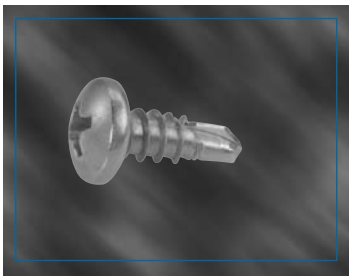


Square shoulder self-positioning carriage bolt.

Catalogue Number	Material	Description
PGW-1/4-CB	Zinc Plated Steel	¼" Carraige Bolt
PGW-3/8-CB	Zinc Plated Steel	⅜" Carraige Bolt
PGW-1/4-HN	Zinc Plated Steel	¼" Hex. Nut
PGW-3/8-HN	Zinc Plated Steel	⅜" Hex. Nut
S6W-3/8-CB	316 Stainless	⅜" Carraige Bolt
S6W-3/8-HN	316 Stainless	⅜" Hex. Nut
S6W-3/8-HWK*	316 Stainless	316 Stainless Steel Hardware Kit

* Contains 8 bolts, 8 nuts and 8 lockwashers.

Self-Drilling Self-Tapping Screw



Catalogue Number	Material	Description
PGW-10-SCR	Zinc Plated Steel	Self-Drilling Self-Tapping Screw

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are not interchangeable. Pick one system and stay with it through your project / installation. (Don't mix H and U style components on the same job.)

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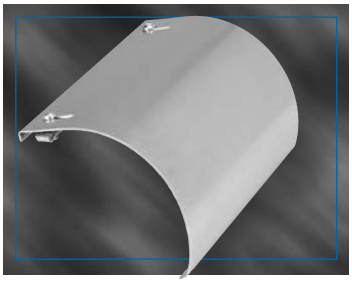
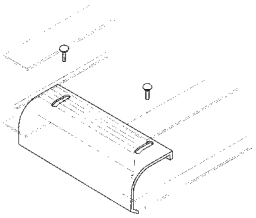
Drop-Out





Designed to provide a smooth radiused surface at any position on the tray or trough bottom.

Drop-Outs are easily attached using hardware provided.

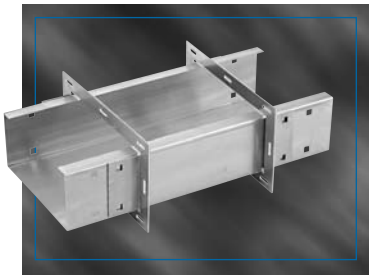
Standard radius 4".

Catalogue Number	Description / Material	*Widths of Tray
ABW(*)DO	For ladder and ventilated tray / Aluminum	06" 09" 12" 18"
ABW(*)DOS	For solid tray / Aluminum	24" 30" 36" 42"

(*) Width of Tray

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Wall Penetration Sleeve



Designed to pass through walls and fire walls.

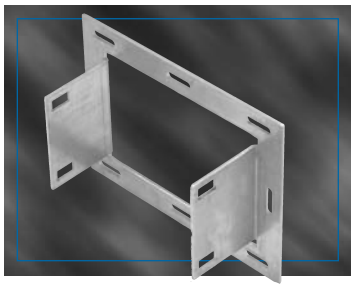
Hardware included.

IMPORTANT:
Not fire rated.
Fire stop not included.

Catalogue Number	Material	*Siderail Height	**Widths of Tray
AUW(*)(**)WPS AHW(*)(**)WPS	Aluminum	4" 5" 6" 7"	06" 09" 12" 18" 24" 30" 36" 42"

(*) Siderail Height
(**) Width

Frame Type Tray to Box Plate



Designed to secure tray to electrical enclosures and panels.

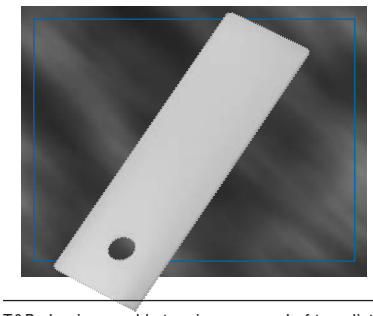
Hardware included.

Catalogue Number	Material	*Siderail Heights	**Widths of Tray
ABW(*)(**)FBP	Aluminum	4" 5" 6" 7"	06" 09" 12" 18" 24" 30" 36" 42"

(*) Siderail Height
(**) Width

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Nylon Expansion Pad



Allows for thermal expansion and contraction of cable trays over supports.

Catalogue Number	Material
ABW-NSP	Aluminum

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

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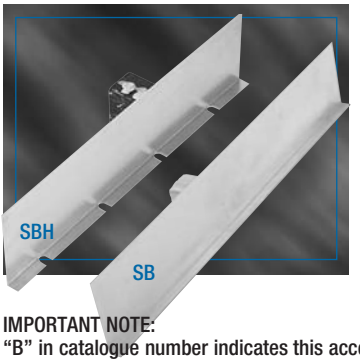
Accessories – Barrier Strips

Barrier Strips



Aluminum barrier strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware.

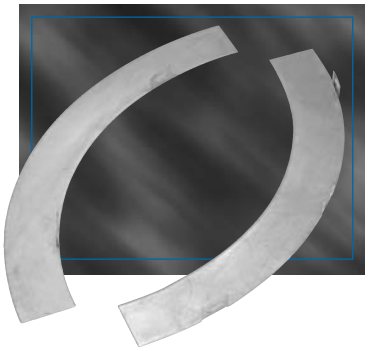
72" barriers are flexible for use with horizontal fittings.

Catalogue Number	Siderail Height	*Length
ABW-4-SBH-72	4"	
ABW-5-SBH-72	5"	
ABW-6-SBH-72	6"	
ABW-7-SBH-72	7"	
ABW-4-SB-(*)	4"	144"
ABW-5-SB-(*)	5"	3m
ABW-6-SB-(*)	6"	
ABW-7-SB-(*)	7"	

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

NOTE: 72" barriers provided with 3 PGW10SCR
144", 3m barriers provided with 6 PGW10SCR
(*) Insert length

Inside / Outside Vertical Bend Barriers



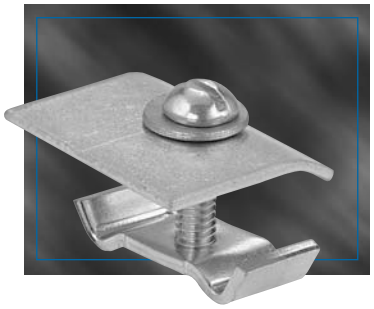
Preformed to fit all standard aluminum vertical bends.

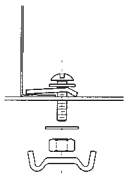
Provided with hardware.

Inside Bend Catalogue Number	Outside Bend Catalogue Number	Siderail Height
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	4"
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	5"
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	6"
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	7"
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	4"
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	5"
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	6"
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	7"

(**) Insert Bend Angle (+) Insert Bend Radius (*) Siderail Height.

Barrier Strip Clamp





Alternate mounting method for barrier strip mounting.

Barrier strip clamps mount barrier strips to ladder rungs and ventilated bottoms.

Complete mounting hardware supplied.

Catalogue Number	Material
PGW-BSC	Zinc Plated Steel
S6W-BSC	316 Stainless

Barrier Strip Splice

Alignment splice for joining connecting barrier strips.

Catalogue Number	Material
ABW-BSS	Plastic

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

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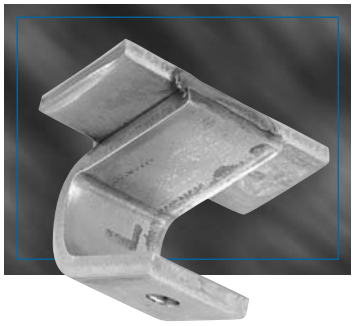
T&B® Cable Tray Aluminum

Accessories

Cable Tray Guide

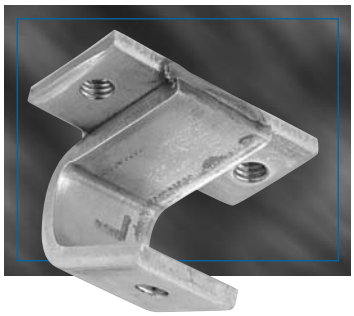


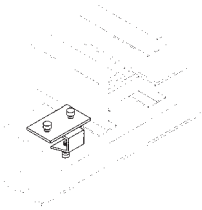
Expansion guide for single or double runs of cable tray.

No need to field drill of channel or I-beam.

Catalogue Number	Material
PGW-CTG	Zinc Plated Steel
HGW-CTG	Steel Hot Dip

Cable Tray Clamp



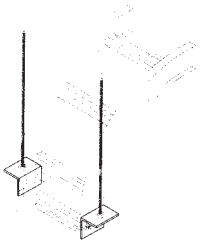


Clamps for single run of cable tray.

No need to field drill the channel or I-beam.

Catalogue Number	Material
PGW-CTC	Zinc Plated Steel
HGW-CTC	Steel Hot Dip

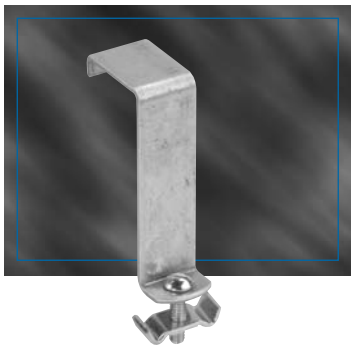
Vertical Tray Hanger

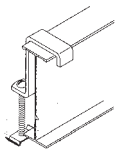


Catalogue Number	Material	*Siderail Height
AUW(*)VTH	Aluminum	4"
AHW(*)VTH		5"
		6"
		7"

* Insert siderail height

Hold Down Clamp





Designed to secure cable tray to support system.

Catalogue Number	Material	*Siderail Height
ABW(*)HDC	Aluminum	4"
		5"
		6"
		7"

Note: Hardware included
(*) Insert siderail height.

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

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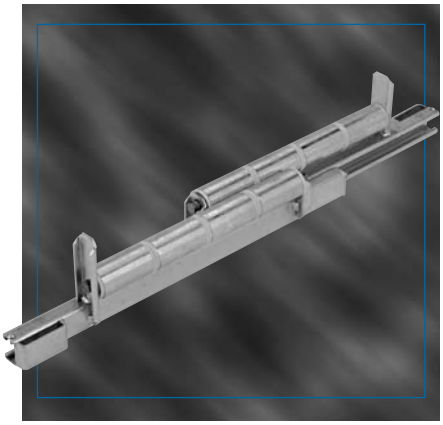
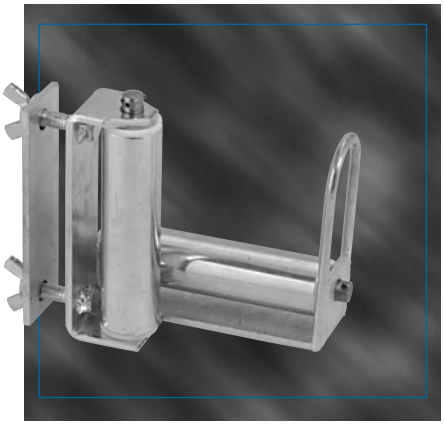
Rollers





Catalogue Number	Description	Fits
VHR04	Corner	all profiles
HAR 1224	Straight	all profiles 12" to 24" (30 cm to 60 cm)
HAR 1836	Straight	all profiles 18" to 36" (45 cm to 90 cm)

Why should rollers be used?

1. To reduce pulling stress on cables, avoiding undue fatigue or abrasions
2. Minimizes harmful 'shear' load being placed on cable trays
3. To reduce installation time

Why purchase the T&B Cable Roller System?

- Universal — fits virtually all tray systems
- Mounts from bottom of cable tray, eliminating the need for double handling cables and reducing possibility of cable damage
- Sideways telescopic adjustment allows rollers to accommodate virtually all tray widths
- Nylon bearings require no lubrication
- Independent rollers limit cable abrasion

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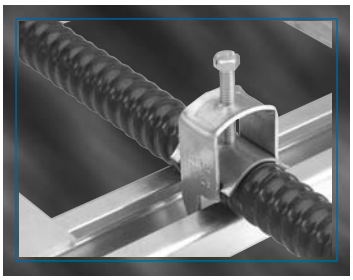
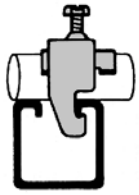
Cable and Pipe Clamp

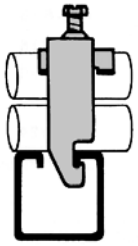


Material:
Aluminum

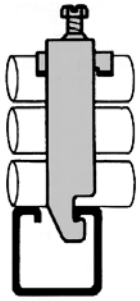
(Also available in pre-galvanized add PG suffix for steel cable tray).



C118
Single Cable Clamp



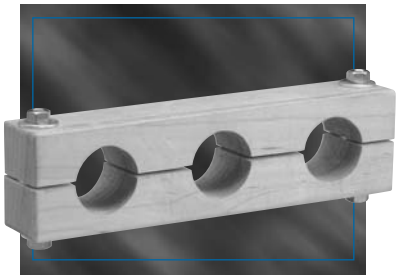
C128
Double Cable Clamp

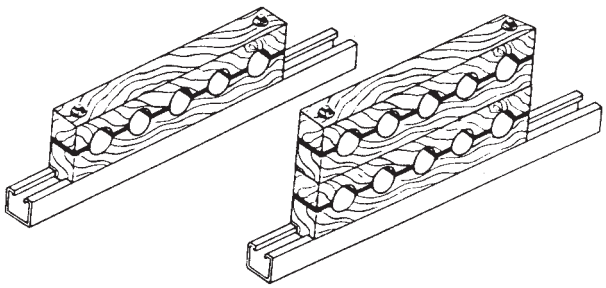


C138
Triple Cable Clamp

Catalogue Number	O.D. of Cable or Pipe (in.)	(mm)	Rigid Conduit	EMT Tubing
C118-047AL	0.27 - 0.47	7.5 - 12	—	—
C118-055AL	0.4 - 0.55	10 - 14	—	—
C118-070AL	0.5 - 0.7	13 - 18	3/8	—
C118-090AL	0.6 - 0.9	15 - 23	1/2	1/2
C118-110AL	0.85 - 1.1	21.5 - 29	3/4	3/4
C118-140AL	1.1 - 1.4	28 - 36	1	1
C118-175AL	1.4 - 1.75	35.5 - 44	1-1/4	1-1/4 - 1-1/2
C118-200AL	1.75 - 2.0	44.5 - 51	1-1/2	—
C118-250AL	2.0 - 2.5	51 - 63.5	2	2
C118-300AL	2.5 - 3.0	63.5 - 76	2-1/2	2-1/2
C118-370AL	2.6 - 3.7	66 - 95	3	3
C118-410AL	3.5 - 4.1	89 - 105	3-1/2	3-1/2
C118-460AL	3.9 - 4.6	99 - 118	4	4
C128-047AL	0.27 - 0.47	7.5 - 12	—	—
C128-055AL	0.4 - 0.55	10 - 14	—	—
C128-070AL	0.5 - 0.7	13 - 18	3/8	—
C128-090AL	0.6 - 0.9	15 - 23	1/2	1/2
C128-110AL	0.85 - 1.1	21.5 - 29	3/4	3/4
C128-140AL	1.1 - 1.4	28 - 36	1	1
C128-175AL	1.4 - 1.75	35.5 - 44	1-1/4	1-1/4
C138-047AL	0.27 - 0.47	7.5 - 12	—	—
C138-055AL	0.4 - 0.55	10 - 14	—	—
C138-070AL	0.5 - 0.7	13 - 18	3/8	—
C138-090AL	0.6 - 0.9	15 - 23	1/2	1/2

Maple Hardwood Block





Maple hardwood, paraffin impregnated, multiple cable blocks can be made to your specific requirements.

Cable blocks are to insure proper separation of single conductor cables, which prevents any interference due to magnetic fields. The maple hardwood blocks are paraffin impregnated to prevent moisture from penetrating and causing rotting and splitting.

Cable blocks are also available in nylon and high density polyethylene. Price and delivery upon request.

For more information, contact T&B at 1-888-664-5666.

Electrogalvanized hardware is included.

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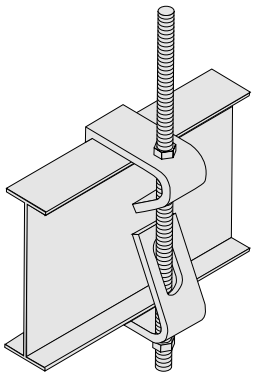
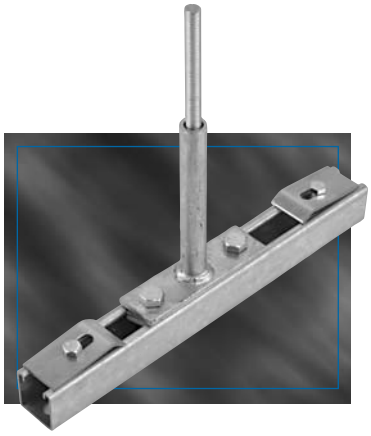
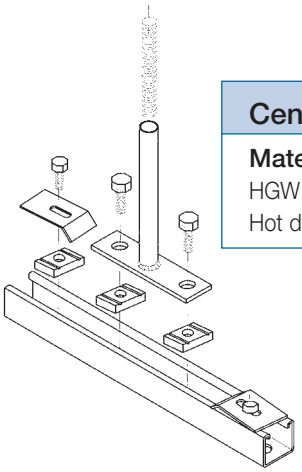


Hanger Rod Clamp

These clamps are designed for ladder and ventilated cable tray.
They provide a fast and economical solution for a suspended cable tray installation.
One kit is needed per each threaded rod location.
Kit consists of: - one bottom clamp
- one top clamp
Uses ½" threaded rod (order separately)
250 lbs capacity per kit.

Tray Series	Catalogue no.	Tray Series	Catalogue no.	Tray Series	Catalogue no.
AU04/AH04	ABW04HRC	AU25/AH25	ABW25HRC	AU46/AH46	ABW46HRC
AU14/AH14	ABW14HRC	AU35/AH35	ABW35HRC	AU56/AH56	ABW56HRC
AU24/AH24	ABW24HRC	AU45/AH45	ABW45HRC	AU66/AH66	ABW66HRC
AU34/AH34	ABW34HRC	AU16/AH16	ABW16HRC	AU27/AH27	ABW27HRC
AU44/AH44	ABW44HRC	AU26/AH26	ABW26HRC	AU37/AH37	ABW37HRC
AU54/AH54	ABW54HRC	AU36/AH36	ABW36HRC		



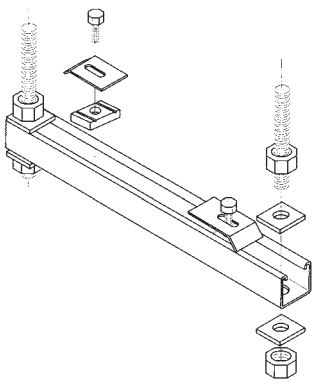


Center Support Bracket

Material	Catalogue no.	Tray width	Channel width
HGW	HGW18CSB	6";9";12"	18"
Hot dip galvanized	HGW30CSB	18";24"	30"

This system is designed to reduce cable pulling by allowing access from both sides of cable tray. Installation cost and time are reduced significantly by single point suspension.

- Supplied as a complete kit.
- Uses ½" threaded rod (order separately)
- For use with up to 24" wide tray
- Load capacity : 700 lbs per kit



Trapeze Kit

tray width	channel width	Catalogue no.
6"	16 7/8"	(*)-06-TPK
9"	18 3/4"	(*)-09-TPK
12"	22 1/2"	(*)-12-TPK
18"	28 1/8"	(*)-18-TPK
24"	35 5/8"	(*)-24-TPK
30"	41 1/4"	(*)-30-TPK
36"	46 7/8"	(*)-36-TPK
42"	52 1/2"	(*)-42-TPK

This system is designed to support various cable tray widths in a suspending installation
Kit consists of :
- 1 pc of strut cut to length
- 2 hold down clips
- 2 3/8" x 7/8" hex head cap screws
- 4 3/8" strut nuts
- 4 1/2" hex nuts
- 4 1/2" square washers

Uses ½" threaded rod (order separately)

(*) Insert : **HGW** for hot dip galvanized **PGW** for pre-galvanized
S4 for stainless steel 304 **S6** for stainless steel 316

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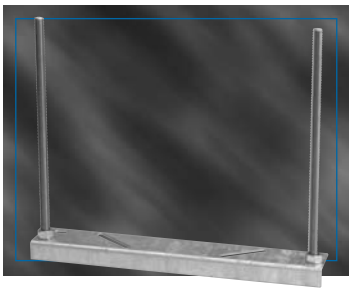
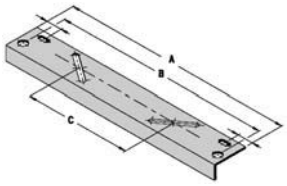
Cross Member





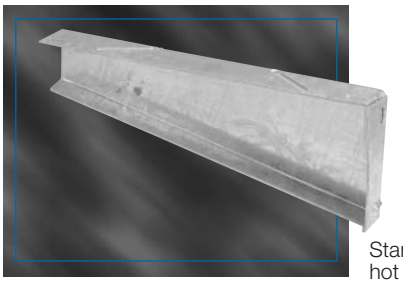
Hanging rods not included.

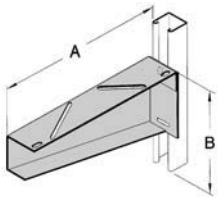
Standard finish:
hot dipped galvanized

Catalogue Number	A	B	C
S202-6HDG	6	5	-
S202-9HDG	9	8	2
S202-15HDG	5	14	8
S202-21HDG	21	20	14
S202-27HDG	27	26	20
S202-33HDG	33	32	26

* Order hold down clips seperately. Cat # S6W-SHC

Cantilever Support



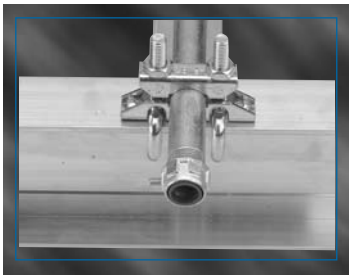


Standard finish:
hot dipped galvanized

Catalogue Number	A	B	Design Load/lbs
S203-8HDG	8-1/2	4-1/16	1200
S203-14HDG	14-1/2	5-3/8	1200
S203-20HDG	20-1/2	6-11/16	1200
S203-26HDG	26-1/2	8	1200
S203-32HDG	32-1/2	8	1200
S203-38HDG	38-1/2	8	1200

* Order hold down clips seperately. Cat # S6W-SHC

Conduit to Cable Tray Clamp



Material:
steel

Standard finish:
electro-galvanized

Catalogue Number	Conduit Size (inches)
6210 *	1/2 — 3/4
6212 **	1 — 1-1/4

* UL File # 9809 ** CSA File # 2884

Conduit to Cable Tray - Swivel Clamp

Material:
malleable iron hub
and steel U-bolt

Standard finish:
zinc plated

Catalogue Number	Conduit Size (inches)
6209	1/2 — 3/4
6211	1 — 1-1-/4
6214	1-1/2 — 2
6216	2-1/2 — 3
6218 *	3-1/2 — 4

* UL File # 9809

Swivel Tray Clamp for aluminum and steel trays with regular or reinforced flanges.

- Serrations and biting teeth on clamping saddle provide a high quality bond between conduit and clamp.
- 1/2 to 4 inch can be clamped to any position in a 90 degree arc.

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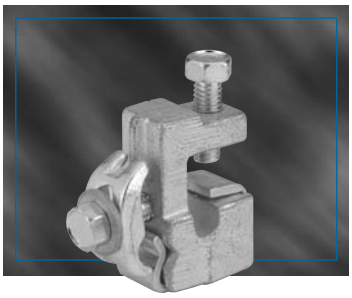
Economical Cable Tray Ground Clamp

Material:
malleable iron

Standard finish:
zinc plated

Catalogue Number	Description
10103TB	For single conductor #4 solid to 2/0.
MA2GC	For single conductors #4 solid to 2/0 str. Includes Superstrut springless channel nut for easy installation in cable tray rungs.

Cable Tray Ground Clamp

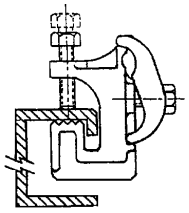


Showing Cat. No. 10109

Material:
malleable iron

Standard finish:
zinc plated

Catalogue Number	Description
10105 *	For single conductors #4 solid to 2/0 str.
10109 **	For single conductors 2/0 solid to 4/0 str.



Blackburn™ Ground Clamp

Material:
copper alloy

Standard finish:
tin plated for
aluminum cable tray

Catalogue Number	Conductor Range Min.	Conductor Range Max.	Figure
GTC13P	#4 sol.	2/0 str.	1
GTC14P	2/0 str.	250 Kcmil	1
GTC23P	#4 sol.	2/0 str.	2
GTC24P	2/0 str.	250 Kcmil	2

Bolt has square shank to prevent turning and allow clamp to be tightened with one wrench.

Figure 1

Figure 2

Castings are of high strength, corrosion-resistant copper alloy.

For our complete offering of Grounding & Bonding products, consult our Blackburn™ and Color-Keyed® catalogues.

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Blackburn™ Cable Tray Ground Clamp

Material:
copper alloy

Standard finish:
zinc plated

Catalogue Number	Description
CTG250	For parallel or tapping applications #2 solid to 250 Kcmil.

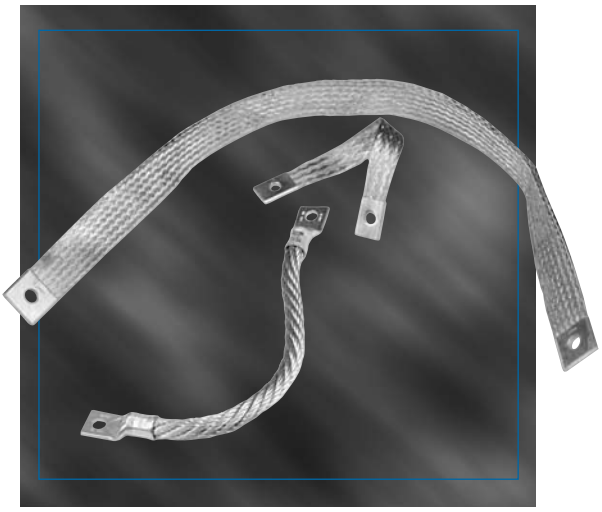
Blackburn™ Lay-in Lug

Material:
high strength 6061-T6
aluminum alloy

Catalogue Number	Conductor Range Min.	Conductor Range Max.	Stud Size (in.)	Stud Size (mm^2)
LL306	#6 solid	3/0 str.	.33	8.38
LL2506	#6 str.	250 Kcmil	.33	8.38

These grounding connectors are dual rated for aluminum and copper conductors. The opened face design allows the installer to quickly lay-in the grounding conductor as a jumper.

Bonding Jumpers



Material: copper

Standard finish: tin plated

Catalogue Number	Bonding Amp. Capacity	Single Bolt Hole	Description
FBD12-1 *	600 Amps.	7/16	12” flat flexible braid
FBD16-1 *	600 Amps.	7/16	16” flat flexible braid
FBE12-1 *	1200 Amps.	9/16	12” flat flexible braid
FBE16-1 *	1200 Amps.	9/16	16” flat flexible braid
CAW2000BJ	2000 Amps.		16” round flexible braid

* Listed UL 467 & 486A, certified CSA C22.2 No. 41 for grounding & bonding equipment.

Standard lengths offered in 12, 18, 24, 30 and 36 inches end to end.

Example : FBD24-1 for a 24" long bonding jumpers

Custom braids are available

IMPORTANT: Bonding Jumpers are required for expansion joints as well as adjustable joints.

For our complete offering of Grounding & Bonding products, consult our Blackburn™ and Color-Keyed® catalogues.

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Cable Tray Grounding & Bonding – Reference Tables

Grounding & Bonding

Table 1
(NEC TABLE 318-7)
Metal Area Requirements for Cable Trays Used as Equipment Grounding Conductors

Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System	Minimum Cross-Sectional Area of Metal* In Square Inches	
	Steel Cable Trays	Aluminum Cable Trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50 **	0.40
1000	-	0.60
1200	-	1.00
1600	-	1.50
2000	-	2.00 **

For SI units: one square = 645 square millimeters.

* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.

** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.

For larger ampere ratings an additional grounding conductor must be used.

Table 2
Minimum Size Equipment Grounding Conductors for Grounding & Bonding Raceway and Equipment
(Based on NEC Table 250-95 and CEC Table 16)

Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc. Not exceeding (Amperes)	Conductor Size
60	10
100	8
200	6
300	4
400	3
500	2
600	1
800	1/0
1000	2/0
1200	3/0
1600	4/0
2000	250 Kcmil

* See installation restrictions in NEC Section 250-92(a).

For more information on grounding and bonding cable tray, refer to NEMA VE 1-1998 / CSA C22.2 No. 126.1-98 Metal Cable Tray Systems and / or NEMA VE 2 Cable Tray Installation Guide.

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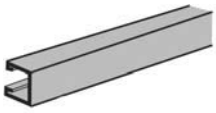
Superstrut® Support Systems

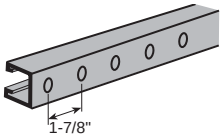
1-5/8" x 1-5/8" Channel

Superstrut® 1-5/8" x 1-5/8" - 12 Gauge Channel Type A

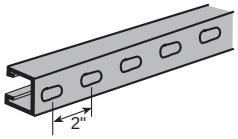
Solid Base



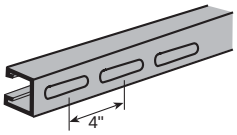
Punched



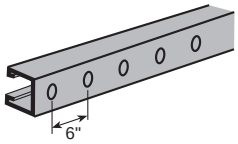
Half Slots



Long Slots



Knockouts



Back to Back

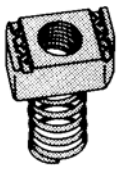
Catalogue Number	Description
A1200	Solid base
A1200-P	Punched
A1200-HS	Half slots
A1200-S	Long slots
A1200-KO	Knockouts
A1202	Back to back

Finishes & Materials	
No Suffix	Gold galvanized dichromate finish
AL	Aluminum
EG	Electrogalvanized
HDG	Hot dipped galvanized
PG	Pregalvanized
SS	Stainless steel Type 304
T316SS	Stainless steel Type 316

- Offered in 10 or 20 ft. lengths.
- Aluminum, hot dipped galvanized or stainless steel channels are recommended to support aluminum cable tray. **Example: A1200HS10AL A120020HDG**

Channel Nuts

A100
Regular Spring Nut



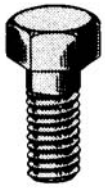
AC100
Springless Nut

UC100
Universal Nylon Cone Nut

For all 1⅝" and 1½" channels
May be used with ALL Strut Depths.

Catalogue Number	Size	
A100-1/4EGC	1/4	Standard Finish: Electrogalvanized. Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS.
A100-5/16EGC	5/16	
A100-3/8EGC	3/8	
A100-1/2EGC	1/2	
A100-5/8EGC	5/8	
A100-3/4EGC	3/4	
A100-7/8EGC	7/8	
Nut is square over ½" size.		
AC100-1/4EGC	1/4	Standard Finish: Electrogalvanized. Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS.
AC100-3/8EGC	3/8	
AC100-1/2EGC	1/2	
AC100-5/8	5/8	
AC100-3/4	3/4	
Nut is square over ½" size.		
UC100-1/4	1/4	Not available in stainless steel.
UC100-3/8	3/8	
UC100-1/2	1/2	

Hex. Head Cap Screw



Catalogue Number	Size	
E142-1/4x100EG	1/4 x 1	Standard finish Electrogalvanized Available in stainless steel Change suffix to SS
E142-1/4x150EG	1/4 x 1-1/2	
E142-3/8x100EG	3/8 x 1	
E142-3/8x150EG	3/8 x 1-1/2	
E142-1/2x100EG	1/2 x 1	
E142-1/2x150EG	1/2 x 1-1/2	

For our complete selection, consult our Superstrut® catalogue.

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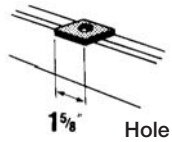
Superstrut® Support Systems

1-5/8" x 1-5/8" Channel

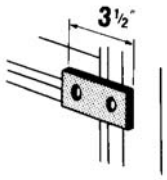
Superstrut® Fittings and Brackets

AB241HDGC

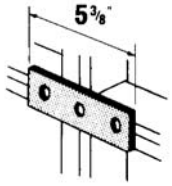


Cat. No.	Hole Size
AB241-1/4HDGC	1/4
AB241-3/8HDGC	3/8
AB241-1/2HDGC	1/2
AB241-3/4HDGC	3/4

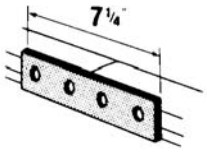
AB206HDGC



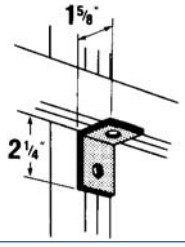
AB207HDGC



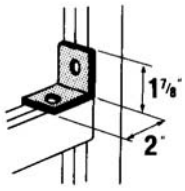
X207HDGC



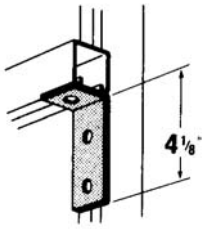
AB201HDGC



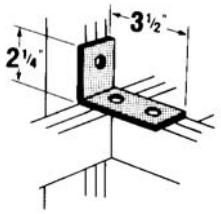
AB202HDGC



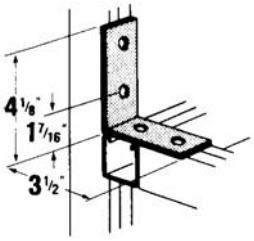
AB203HDGC



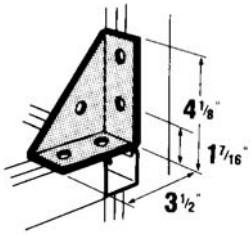
AB204HDGC



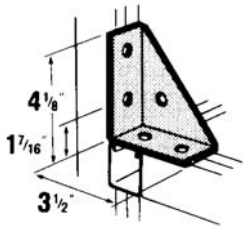
AB205HDGC



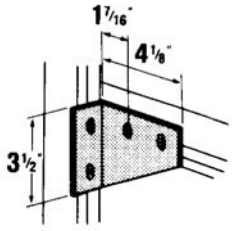
AB213HDGC



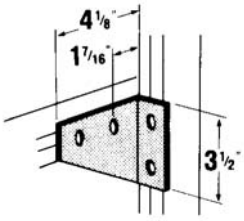
AB214HDGC



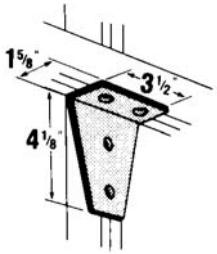
AB254-LHDGC
X235HDGC



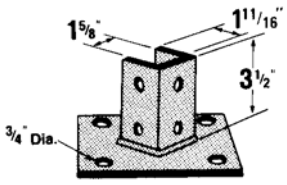
AB254-RHDGC

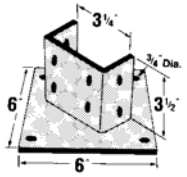


X289HDGC

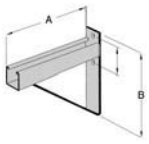


X232HDGC



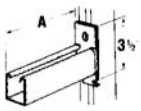


S249HDG



Cat. No.	A	B	Design Load/lbs.
S249-8HDG	8-1/2	8	1500
S249-14HDG	14-1/2	9	1500
S249-20HDG	20-1/2	9	1500
S249-26HDG	26-1/2	11-1/2	1500
S249-32HDG	32-1/2	11-1/2	1500
S249-38HDG	38-1/2	11-1/2	1500

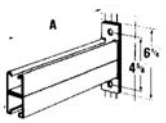
S256HDGC



Cat. No.	A	Design Load/lbs.
S256-8HDG	8-1/2	1000
S256-14HDG	14-1/2	500
S256-20HDG	20-1/2	300
S256-26HDG	26-1/2	250

When installed in inverted position reduce load rating 40%. Strut section made from half slot channel.

S251HDGC



Cat. No.	A	Design Load/lbs.
S251-14HDGC	14-1/2	1650
S251-20HDGC	20-1/2	800
S251-26HDGC	26-1/2	650
S251-32HDGC	32-1/2	500
S251-38HDGC	38-1/2	500

Hot dipped galvanized (HDG) or stainless steel (SS) fittings are recommended to assemble aluminum channel.
Also available in Electrogalvanized (EG) and Gold galvanized dichromate (no suffix).

For our complete selection, consult our Superstrut® catalogue.

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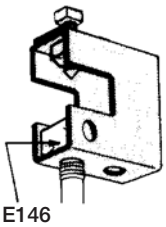
Superstrut® Support Systems

1-5/8" x 1-5/8" Channel

Superstrut® Beam Clamps and Hanger Rods

U562HDG



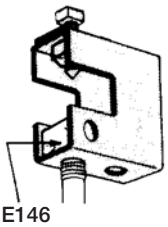
E146

Rod Size	Design Load Load/lbs.
1/2	800

E146 Square nut order separately.
½" set screw included.

For 20° swivel application use ES145-1/2 nut.

UM562HDGC



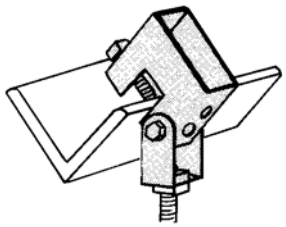
E146

Rod Size	Design Load Load/lbs.
1/2	1200

E146 Square nut order separately.
½" set screw included.

For 20° swivel application use ES145-1/2 nut.

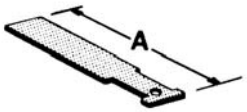
US562HDGC



Rod Size	Design Load Load/lbs.
1/2	800

½" set screw included.

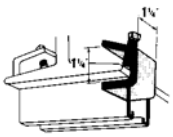
U568



Cat. no.	Beam Flange Width	A
U568-3EG	6	9
U568-4EG	9	12
U568-5EG	12	15

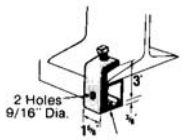
16 ga. material

U514HDGC



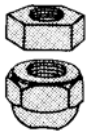
⅜" x 1½" set screw included.
Design Load 750 lbs./per pair

U515HDGC



For all "A" series channel.
½"" x 1½" set screw included.
Design Load 800 lbs.

ES145



Cat. No.	Size
ES145-3/8EG	3/8
ES145-1/2EG	1/2

E146

Cat. No.	Size
E146-1/4EG	1/4
E146-5/16EG	5/16
E146-3/8EG	3/8
E146-1/2EG	1/2
E146-5/8EG	5/8

H104

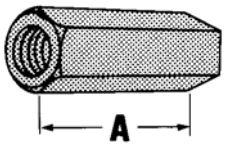
Standard length, 10 ft.

Also available in stainless steel (304 and 316) in length of 6 ft.

NATIONAL COARSE THREAD

Cat. No.	Size	Threads per inch	Design Load lbs.
H104-1/4x10EGC	1/4	20	150
H104-3/8x10EGC	3/8	16	610
H104-1/2x10EGC	1/2	13	1130
H104-5/8x10EGC	5/8	11	1810
H104-3/4x10EGC	3/4	10	2710
H104-7/8x10EGC	7/8	9	3770
H104-1x10EGC	1	8	4960

H119



Order by product number, rod size, and finish. Example: **H119-1/2EGC**

Rod Size	A
1/4	7/8
5/16	7/8
3/8	1-1/8
1/2	1-1/4
5/8	2-1/8
3/4	2-1/4
7/8	2-1/2
1	2-1/4

Finished & Materials: Gold Galv. dichromate (no suffix), Electrogalvanized (EG), Hot dipped Galvanized (HDG), Stainless Steel Type 304 (SS)

For our complete selection, consult our Superstrut® catalogue.

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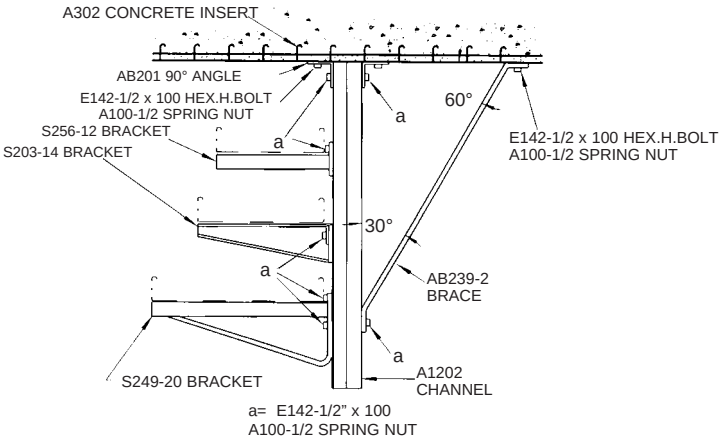
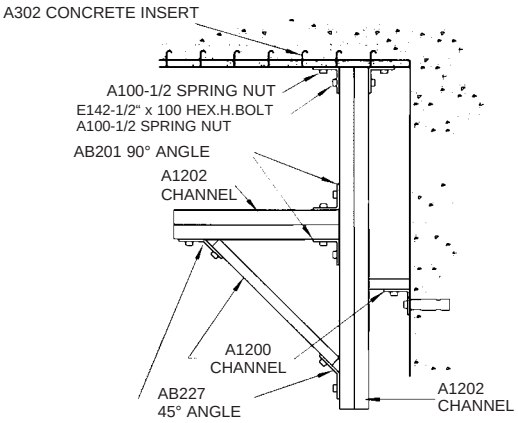
Example: 1



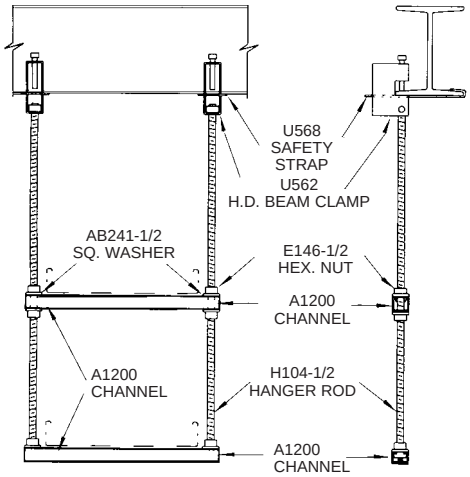
Suspended column, carrying brackets, braced to the ceiling.

Example: 2



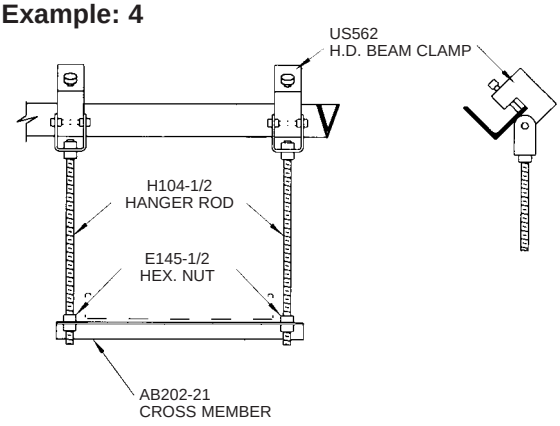
Suspended column, holding bracket and console braced to wall.

Example: 3



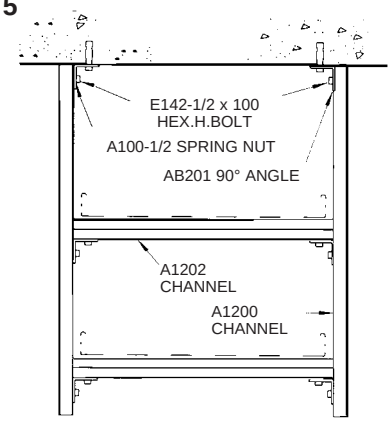
Trapeze, T&B channels are used as cross members.

Example: 4



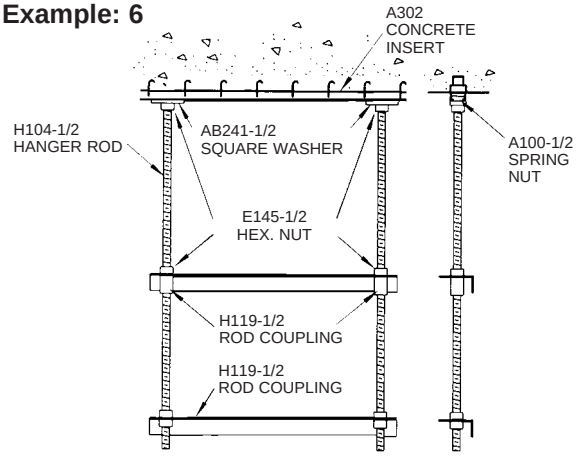
Sketch depicts the use of beam clamps on slanted beams.

Example: 5



Trapeze, constructed from T&B channels, fittings. The use of spot inserts is shown.

Example: 6



Trapeze, using T&B hanger rods, cross members.

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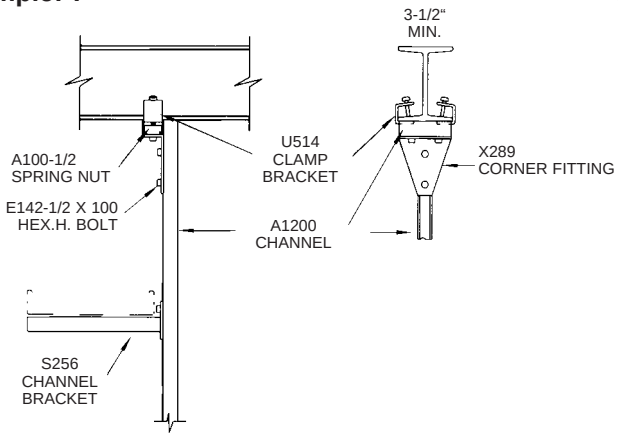
Design Applications – Mechanical Support

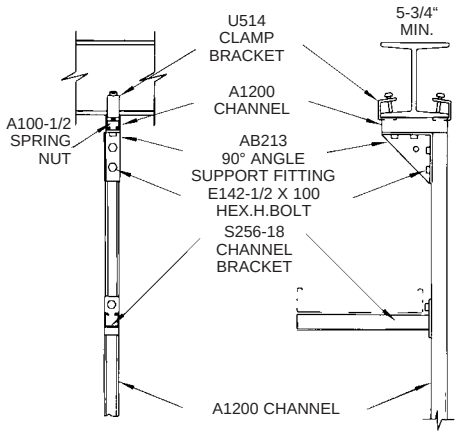
Example: 7



* NOTE: BRACE SHOULD BE USED FOR LENGTHS GREATER THEN 30”

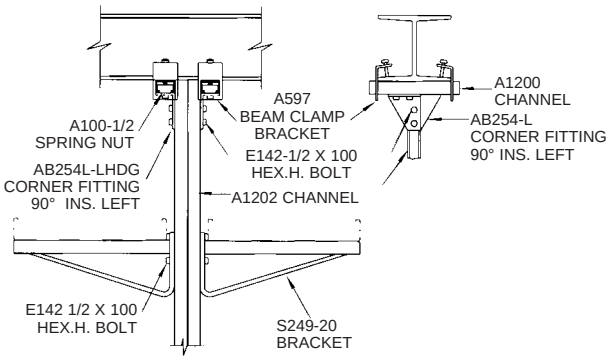
Single-sided bracket application

Example: 8



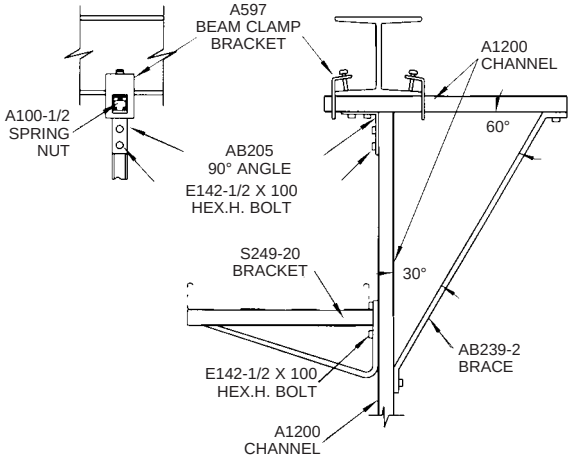
Single-sided bracket application

Example: 9



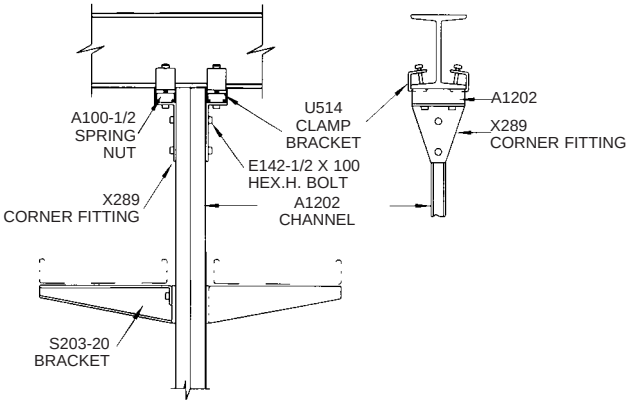
Two-sided heavy duty application

Example: 10



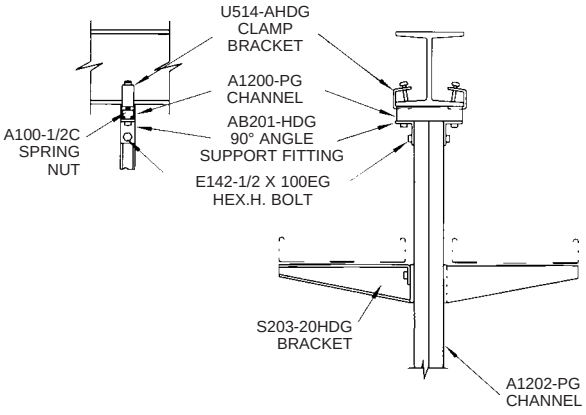
Heavy duty bracket application

Example: 11



Brackets parallel to beam

Example: 12



Brackets perpendicular to beam

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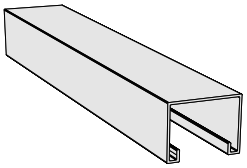
Kindorf® Support Systems

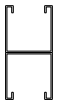
1-1/2" x 1-1/2" Channel

Kindorf® 1-1/2" x 1-1/2" - 12 Gauge Channel

Solid Base

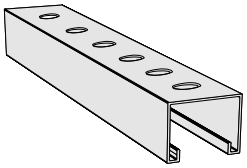


Back to Back

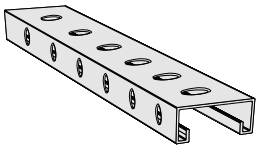


2A

Punched Base



Bolt Holes — 3 Sides



Catalogue Number	Description	
B900 (12 Ga.) **B900M** (14 Ga.) **B900AL** (Aluminum)	Solid base Solid base Solid base	⅜" dia. bolt holes on 1½" centers, ¾" from end.
B905 (12 Ga.) **B905M** (14 Ga.) **B905AL** (Aluminum)	Punched base Punched base Punched base	
B995 (12 Ga.) **B995M** (14 Ga.)	Bolt holes - 3 sides Bolt holes - 3 sides	

Finishes & Materials	
Non Suffix	Galv Krōme dichromate finish
AL	Aluminum
EG	Electrogalvanized
HD	Hot dipped galvanized
PG	Pregalvanized
SS	Stainless steel Type 304

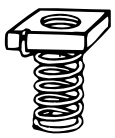
Offered in 10 or 20 ft. lengths.

Aluminum, hot dipped galvanized or stainless steel channels are recommended to support aluminum cable tray.

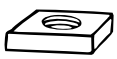
Example: **B900AL10, Aluminum channel**
B90510HD, Punched base Hot Dipped Channel

Channel Nuts

B911
Spring Nut



B910
Springless Nut



UC100
Universal Nylon Cone Nut

For all 1-5/8" and 1-1/2" channels
May be used with ALL Strut Depths.

Catalogue Number	Size	
B-910-1/4 **B-910-3/8** **B-910-1/2**	1/4 3/8 1/2	Standard Finish: Galv Krōme
B-911-1/4 **B-911-3/8** **B-911-1/2**	1/4 3/8 1/2	Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Add suffix to SS.
UC100-1/4 **UC100-3/8** **UC100-1/2**	1/4 3/8 1/2	Not available in stainless steel.

Hexagonal Head Cap Screw

Catalogue Number	Size	
H113-ZB	1/4 x 1	Standard Finish: Galv Krōme
H113-ZD	1/4 x 1-1/2	
H113-O	3/8 x 1	
H113-Q	3/8 x 1-1/2	
H113-B	1/2 x 1	
H113-D	1/2 x 1-1/2	

For our complete selection, consult our Kindorf® catalogue.

Thomas&Betts

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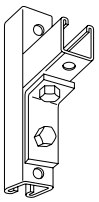
Kindorf® Support Systems

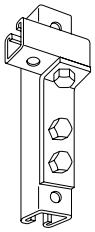
1-1/2" x 1-1/2" Channel

Kindorf® Fittings, Brackets and Beam Clamps

B915



B916



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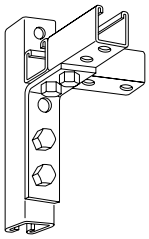

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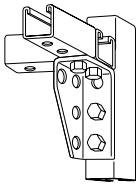

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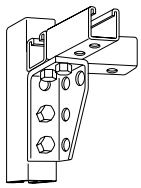
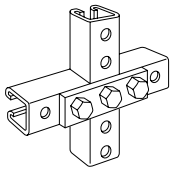


B935



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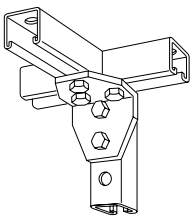
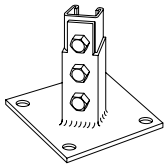


B924



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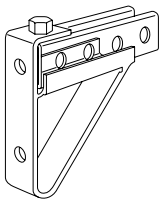

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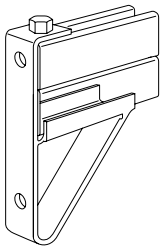
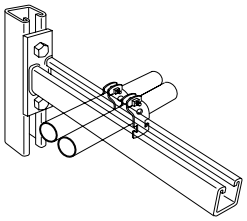
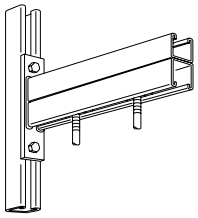


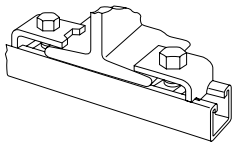
F720



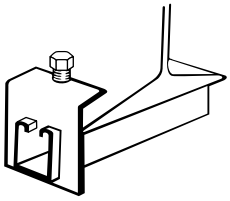
F721



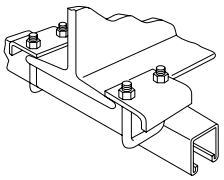
E763



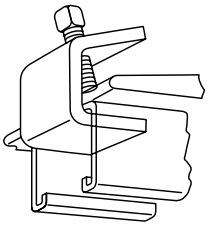
E761



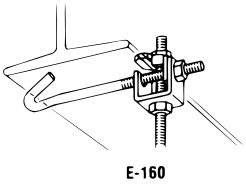
E760-2



E767

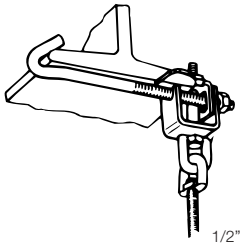


E160-1/2



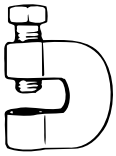
1/2" Rod

E165-1/2



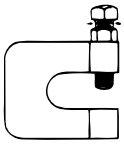
1/2" Rod

E235-3/8



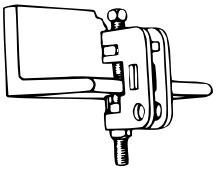
3/8" Rod

E236-3/8

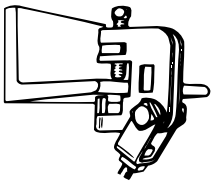


3/8" Rod

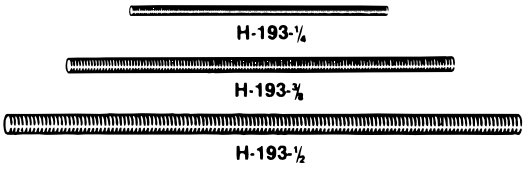
E231-3/8
E231-1/2



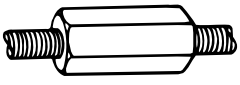
E232-3/8
E232-1/2



H193



H195-1/4
H195-3/8
H195-1/2



Standard Finish: Galv Krōm dichromate (no suffix) Electrogalvanized (EG) Hot dipped galvanized (HD) Stainless Steel Type 304 (SS)

For our complete selection, consult our Kindorf® catalogue.

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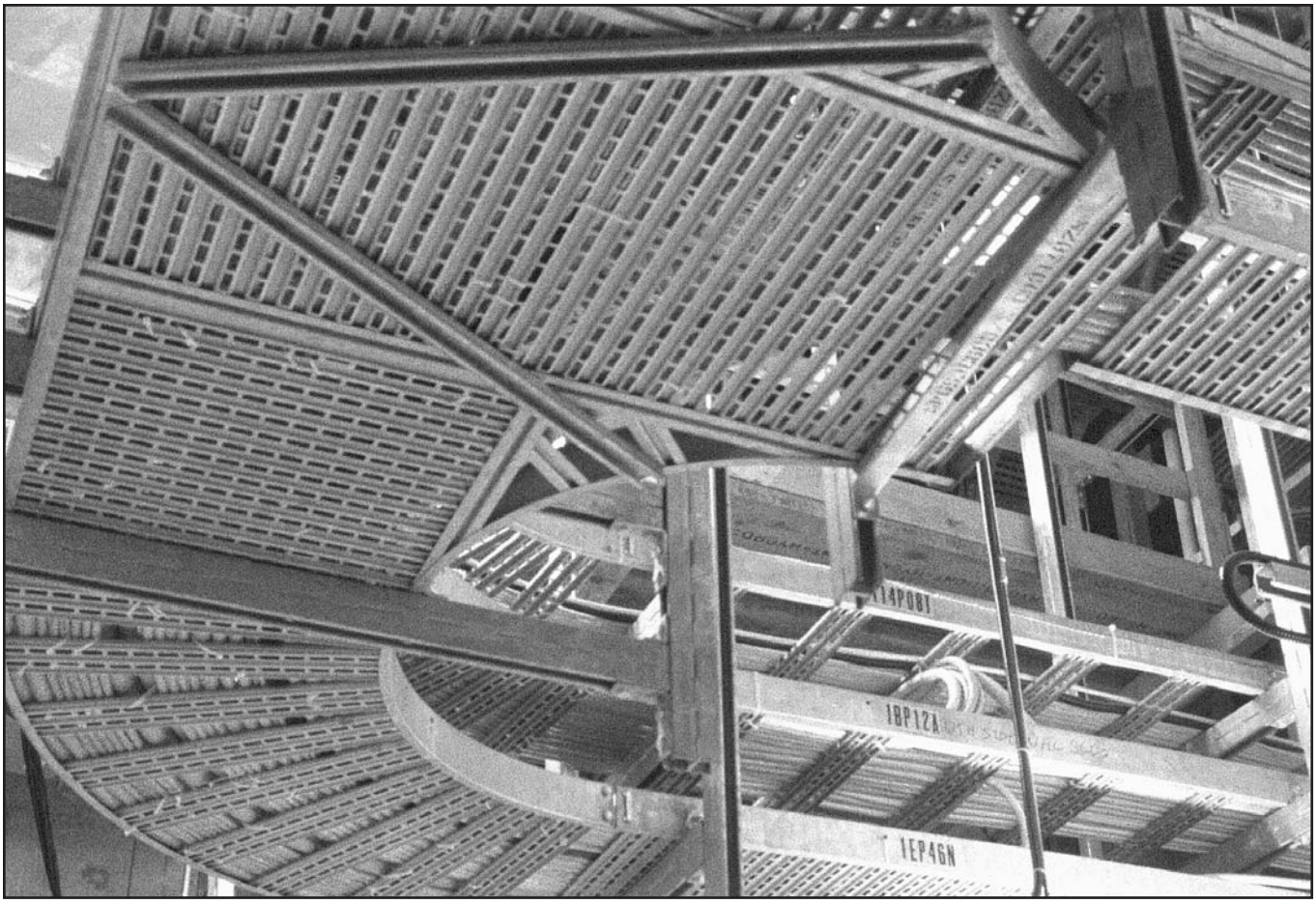
T&B® Cable Tray

Steel Cable Tray – T&B Cable Tray System



Features

- Exclusive Ty-Rap® cable tie slots on one inch (1") centers.
- Extra wide rung design.
- Four bolt connection.
- Versatile strut shaped rung.
- Complete line of fittings.
- Complete line of accessories.

APPLICATIONS

COMMERCIAL

Schools
Plants
Hospitals
Office Buildings
Airports
Casinos
Stadiums

INDUSTRIAL

Petro-Chemical
Automotive Plants
Paper Plants
Food Processing
Power Plants
Refineries
Manufacturing
Mining

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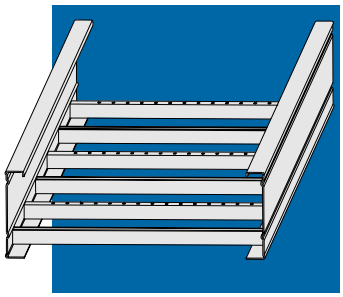
T&B® Cable Tray

Steel Cable Tray – Index

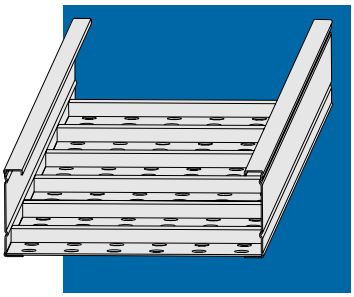
Ladder

Formed siderails are welded to 1⅝" wide rungs to provide maximum rigidity and strength. Rung design includes exclusive Ty-Rap® cable tie slots on 1" centers.



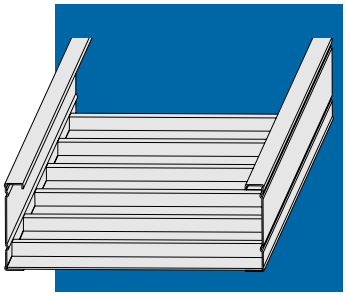
Ventilated Trough

Ventilated sheet welded to steel siderails below rungs. This tray design offers maximum cable support while allowing for cable ventilation and openings for cable dropouts.



Solid Trough

Solid sheet welded to steel siderails below rungs. This design offers added cable protection.



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6" Straight Sections G100
7" Straight Sections G102
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T&B® Cable Tray

Steel Cable Tray – Straight Sections Numbering System

How to create part numbers

Thomas & Betts has created a numbering system based on the order of selection criteria.
For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page G11 in the technical section.

Methods:

1. Select the material best suited to your environment. Refer to technical section page G18.
2. Determine the series tray using the NEMA Load/Span Designations page G12, and Sizing Cable Tray page G31.
3. Select nominal depth and width of tray based on Cable Loading. See Sizing Cable Tray page G31.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in inches.

Example:

Straight Section Number Selection

(PG3-6)-24-L09-144

Material	Series	Siderail Depth	Width	Bottom Type	Length
PG • Pre-Galvanized	1 • Series 1	3½ • (3½")*	06 • (6")	L06 • 6" rung spacing	144 • (12ft)
HG • Hot Dip Galvanized	2 • Series 2	4 • (4")	09 • (9")	L09 • 9" rung spacing	288 • (24ft)
	3 • Series 3	5 • (5")**	12 • (12")	L12 • 12" rung spacing	
		6 • (6")	18 • (18")	L18 • 18" rung spacing	
		7 • (7")**	24 • (24")	V • Ventilated Trough	
			30 • (30")	S • Solid Trough	
			36 • (36")		
			42 • (42")		
Prefix					

*Note: 3½'' tray available in Series 1 and 12' lengths only.
**5" and 7" tray not available in Series 1.

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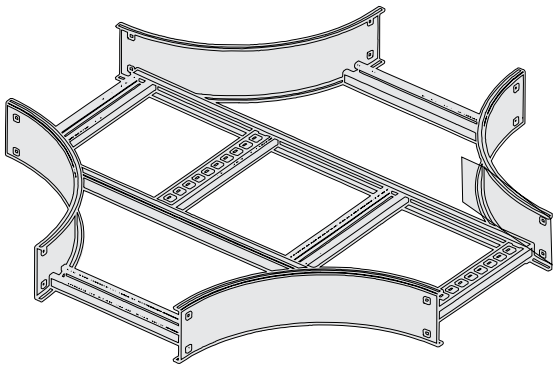
T&B® Cable Tray

Steel Cable Tray – Fittings Numbering System



Example:

Fittings Number Selection

(PGF-6)-24-L-VO 60-12

Prefix

Fitting Material	Siderail Depth	Width	Bottom Type	Fitting Type	Angle**	Radius†
PGF • Pre-Galvanized Fitting	3½ • (3½")	06 • (6")	L • (9" rung spacing)	HB • Horizontal Bend	30 • (30°)	12 • (12")
HGF • Hot Dip Galvanized Fitting	4 • (4")	09 • (9")	V • Ventilated	HT • Horizontal Tee	45 • (45°)	24 • (24")
	5 • (5")	12 • (12")	S • Solid	HX • Horizontal Cross	60 • (60°)	*36 • (36")
	6 • (6")	18 • (18")		VI • Vertical Inside Bend	90 • (90°)	*48 • (48")
	7 • (7")	24 • (24")		VO • Vertical Outside Bend		
		30 • (30")		VTD • Vertical Tee Down		
		36 • (36")		VTU • Vertical Tee Up		
		42 • (42")		HYR • Horizontal Wye Right		
				HYL • Horizontal Wye Left		
				RT • Horizontal Reduce Tee		
				ET • Horizontal Expand Tee		
				EX • Horizontal Expand & Reduce Cross		
				HLR • Horizontal Left Reducer		
				HSR • Horizontal Straight Reducer		
				HRR • Horizontal Right Reducer		
				CS • Cable Support Fitting		

** R36 and R48 not available for 3½" fittings*
*** Angle is required for HB,VI, & VO only*
† Radius is not required for HLR, HSR, & HRR

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T&B® Cable Tray

Steel Cable Tray – 3½" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:

Design: Formed Channel
Nominal Height 3⅝"
Loading Height 2⅝"

Ladder Rung:

Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:

Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:

Design: Solid sheet welded to siderails below rungs for added cable protection.

Material: Pre-Galvanized G90 ASTM A653/A653M
Hot Dip Galvanized ASTM A123

Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG1-3½ HG1-3½	Load (lbs./ft.)	220	124	79	55	40	31	24	20
	Deflection (in.)	0.220	0.495	0.792	1.100	1.536	1.980	2.518	3.109
	Deflection Factor	0.001	0.004	0.010	0.020	0.038	0.064	0.103	0.157

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.
Continuous spans may reduce deflection by as much as 50%.

Part Numbering System

(PG1-3½)-24-L09-144

Material
Series
Depth
Width
Bottom Style
Length

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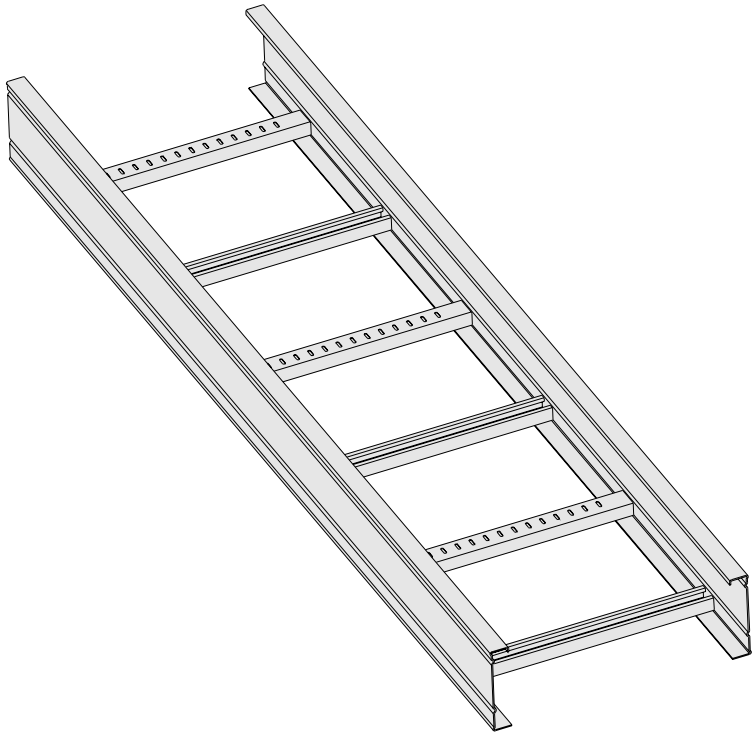
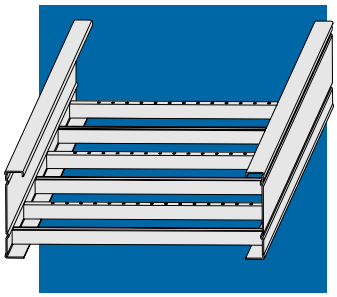
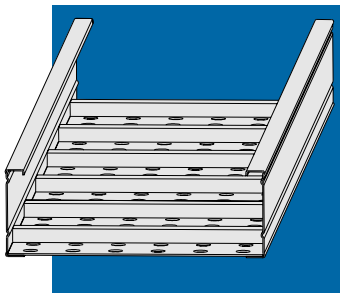
T&B® Cable Tray

Steel Cable Tray – 3½" Straight Sections – Ladder, Ventilated and Solid Trough

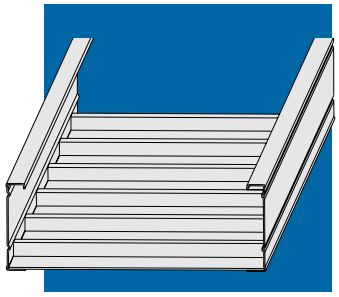




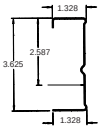
Ladder



Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG1-3½ **HG1-3½**		Ix = 1.266 in^4 Sx = 0.514 in^3	8A, 8B, 8C, 12A U.L. Cross Sectional Area=.40 in^2	C1

Selection Guide

Inside Tray Widths:
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Tray Lengths:
144"=144(12ft.)

Bottom Styles:
L– Standard Ladder Rung Spacing– 6"=L06, 9"=L09, 12"=L12, 18"=L18
V– Ventilated / S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G104-G117.

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T&B® Cable Tray

Steel Cable Tray – 4" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:

Design: Formed Channel
Nominal Height 4 3/16"
Loading Height 3 3/16"

Ladder Rung:

Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:

Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:

Design: Solid sheet welded to siderails below rungs for added cable protection.

Accessories: One pair of splice plates comes with 3/8" mounting hardware.

Material: Pre-Galvanized G90 ASTM A653/A653M
Hot Dip Galvanized ASTM A123

Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG1-4 HG1-4	Load (lbs./ft.)	420	236	151	105	77	59	47	38
	Deflection (in.)	0.420	0.473	0.756	1.155	1.543	2.067	2.613	3.213
	Deflection Factor	0.001	0.002	0.005	0.011	0.020	0.035	0.056	0.085

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG2-4 HG2-4	Load (lbs./ft.)	556	313	200	139	102	78	62	50
	Deflection (in.)	0.334	0.593	0.927	1.335	1.816	2.372	3.003	3.707
	Deflection Factor	0.001	0.002	0.005	0.010	0.018	0.030	0.349	0.074

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG3-4 HG3-4	Load (lbs./ft.)	956	538	344	239	176	134	106	86
	Deflection (in.)	0.478	0.538	1.032	1.672	2.282	3.091	3.928	4.816
	Deflection Factor	0.0005	0.001	0.003	0.007	0.013	0.023	0.037	0.056

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.
Continuous spans may reduce deflection by as much as 50%.

Part Numbering System

(PG3-4)-24-L09-144

Material
Series
Depth
Width
Bottom Style
Length

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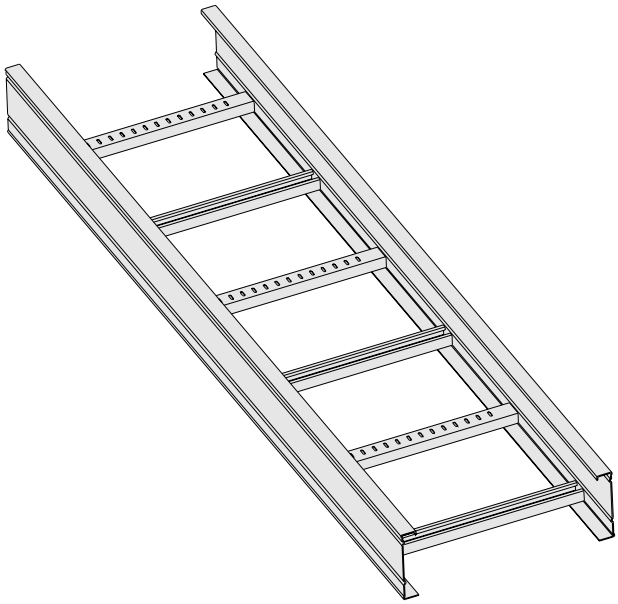
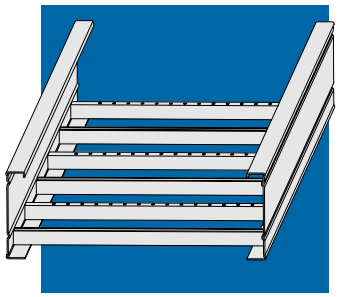
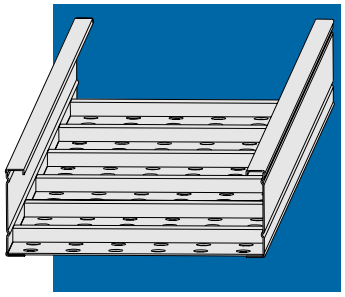
T&B® Cable Tray

Steel Cable Tray – 4" Straight Sections – Ladder, Ventilated and Solid Trough

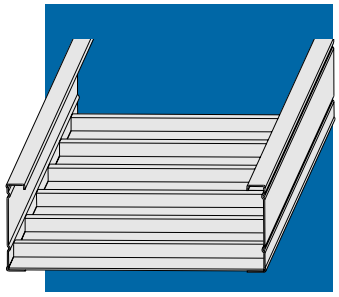




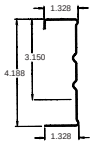
Ladder

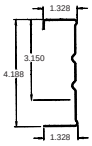


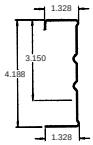
Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG1-4 **HG1-4**		Ix = 1.974 in⁴ Sx = 0.788 in³	8A, 8B, 8C, 12A,12B, 12C 16A U.L. Cross Sectional Area=.70 in²	C1

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG2-4 **HG2-4**		Ix = 2.224 in⁴ Sx = 1.022 in³	8A, 8B, 8C, 12A, 12B, 12C 16A, 16B, 20A U.L. Cross Sectional Area=.70 in²	D1

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG3-4 **HG3-4**		Ix = 2.752 in⁴ Sx = 1.268 in³	8A, 8B, 8C, 12A, 12B, 12C 16A, 16B, 16C 20A, 20B U.L. Cross Sectional Area=1.00 in²	E

Selection Guide

Inside Tray Widths:
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Tray Lengths:
144"=144(12ft.) or 288"=288(24ft.)

Bottom Styles:
L– Standard Ladder Rung Spacing– 6"=L06, 9"=L09, 12"=L12, 18"=L18
V– Ventilated / S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G104-G117.

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T&B® Cable Tray

Steel Cable Tray – 5" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:

Design: Formed Channel
Nominal Height 5 3/16"
Loading Height 4 3/16"

Ladder Rung:

Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:

Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:

Design: Solid sheet welded to siderails below rungs for added cable protection.

Accessories: One pair of splice plates comes with 3/8" mounting hardware.

Material: Pre-Galvanized G90 ASTM A653/A653M
Hot Dip Galvanized ASTM A123

Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG2-5 HG2-5	Load (lbs./ft.)	400	225	144	100	73	56	44	36
	Deflection (in.)	0.240	0.426	0.666	0.959	1.305	1.704	2.157	2.663
	Deflection Factor	0.001	0.002	0.005	0.010	0.018	0.030	0.049	0.074

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG3-5 HG3-5	Load (lbs./ft.)	1111	625	400	278	204	156	123	100
	Deflection (in.)	0.225	0.400	0.625	0.899	1.224	1.599	2.023	2.498
	Deflection Factor	0.0002	0.001	0.002	0.003	0.006	0.010	0.016	0.025

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.

Continuous spans may reduce deflection by as much as 50%.

Part Numbering System

(PG3-5)-24-L09-144

Material
Series
Depth
Width
Bottom Style
Length

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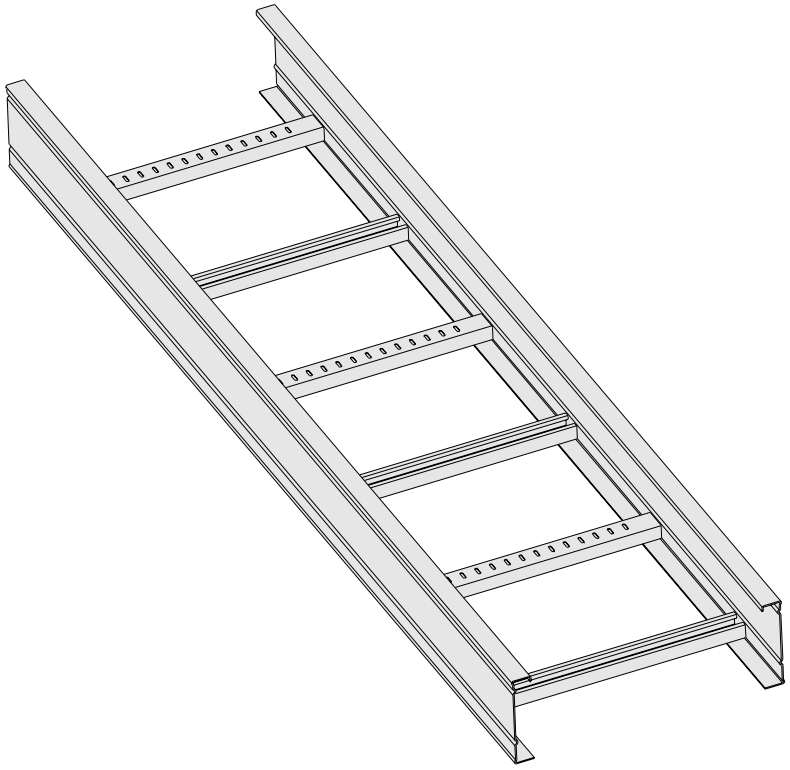
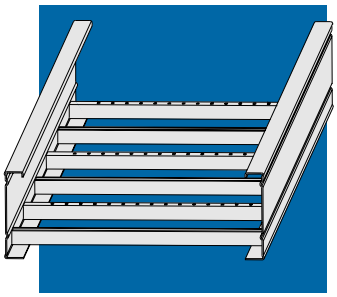
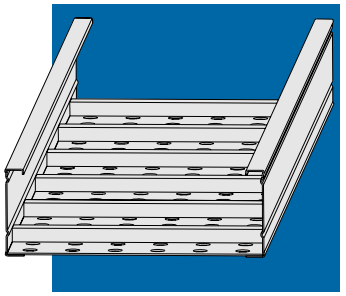
T&B® Cable Tray

Steel Cable Tray – 5" Straight Sections – Ladder, Ventilated and Solid Trough

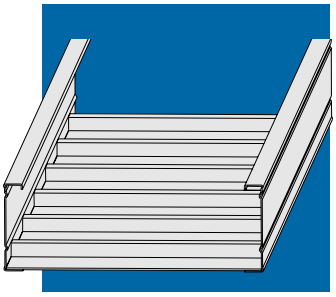




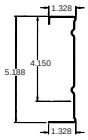
Ladder

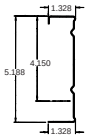


Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG2-5 **HG2-5**		Ix = 2.303 in⁴ Sx = .855 in³	8A, 8B, 8C, 12A, 12B, 12C 16A U.L. Cross Sectional Area=.40 in²	C1

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING
PG3-5 **HG3-5**		Ix = 4.635 in⁴ Sx = 1.732 in³	8A, 8B, 8C 12A, 12B, 12C 16A, 16B, 16C 20A, 20B, 20C U.L. Cross Sectional Area=1.00 in²	E

Selection Guide

Inside Tray Widths:
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Tray Lengths:
144"=144(12ft.) or 288"=288(24ft.)

Bottom Styles:
L– Standard Ladder Rung Spacing– 6"=L06, 9"=L09, 12"=L12, 18"=L18
V– Ventilated / S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G104-G117.

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T&B® Cable Tray

Steel Cable Tray – 6" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:

Design: Formed Channel
Nominal Height 6 3/16"
Loading Height 5 3/16"

Ladder Rung:

Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:

Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:

Design: Solid sheet welded to siderails below rungs for added cable protection.

Accessories: One pair of splice plates comes with 3/8" mounting hardware.

Material: Pre-Galvanized G90 ASTM A653/A653M
Hot Dip Galvanized ASTM A123

Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG1-6 HG1-6	Load (lbs./ft.)	424	239	153	106	78	60	47	38
	Deflection (in.)	0.085	0.239	0.305	0.424	0.545	0.716	0.895	1.107
	Deflection Factor	0.0002	0.001	0.002	0.004	0.007	0.012	0.019	0.029

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG2-6 HG2-6	Load (lbs./ft.)	733	413	264	183	135	103	81	66
	Deflection (in.)	0.147	0.041	0.264	0.550	0.673	0.928	1.222	1.518
	Deflection Factor	0.0002	0.001	0.001	0.003	0.005	0.009	0.015	0.023

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG3-6 HG3-6	Load (lbs./ft.)	1289	725	464	322	237	181	143	116
	Deflection (in.)	0.258	0.363	0.464	0.967	1.184	1.450	1.862	2.320
	Deflection Factor	0.0002	0.0005	0.001	0.003	0.005	0.008	0.013	0.020

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.
Continuous spans may reduce deflection by as much as 50%.

Part Numbering System

(PG3-6)-24-L09-144

Material
Series
Depth
Width
Bottom Style
Length

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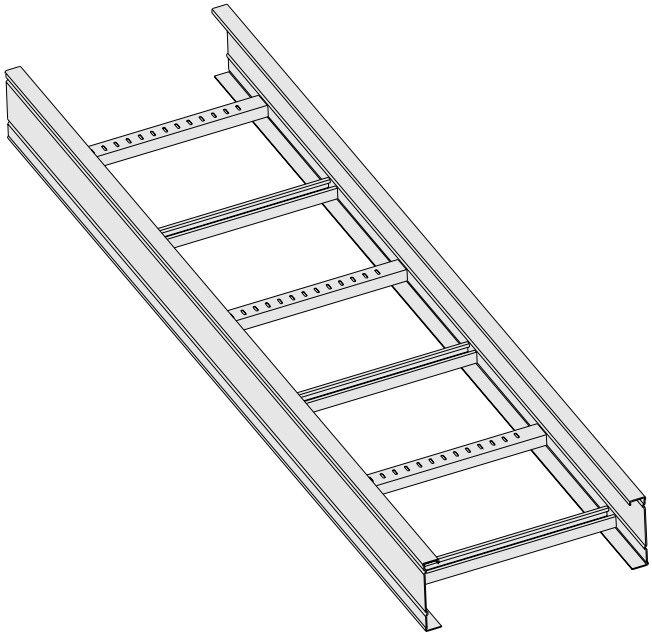
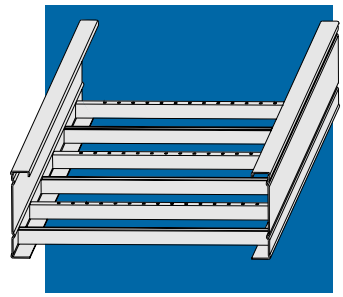
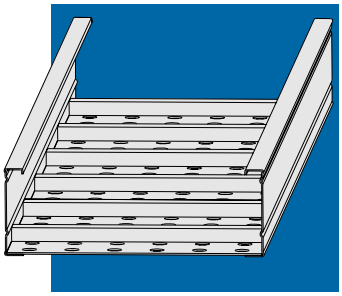
T&B® Cable Tray

Steel Cable Tray – 6" Straight Sections – Ladder, Ventilated and Solid Trough

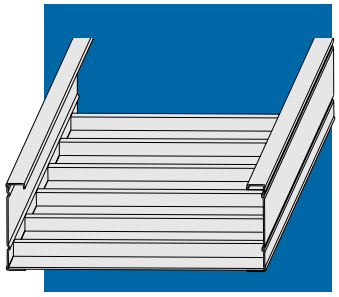




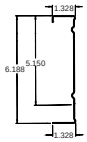
Ladder

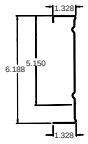


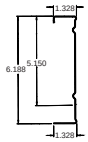
Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG1-6 **HG1-6**		Ix = 3.540 in⁴ Sx = 1.1068 in³	8A, 8B, 8C 12A, 12B, 12C 16A U.L. Cross Sectional Area=.70 in²	C1

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG2-6 **HG2-6**		Ix = 4.980 in⁴ Sx = 1.560 in³	8A, 8B, 8C 12A, 12B, 12C 16A, 16B 20A U.L. Cross Sectional Area=.70 in²	E

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG3-6 **HG3-6**		Ix = 7.173 in⁴ Sx = 2.250 in³	8A, 8B, 8C 12A, 12B, 12C 16A, 16B, 16C 20A, 20B, 20C U.L. Cross Sectional Area=1.00 in²	E

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G104-G117.

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T&B® Cable Tray

Steel Cable Tray – 7" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:

Design: Formed Channel
Nominal Height 7 3/16"
Loading Height 6 3/16"

Ladder Rung:

Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:

Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:

Design: Solid sheet welded to siderails below rungs for added cable protection.

Accessories: One pair of splice plates comes with 3/8" mounting hardware.

Material: Pre-Galvanized G90 ASTM A653/A653M
Hot Dip Galvanized ASTM A123

Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG2-7 HG2-7	Load (lbs./ft.)	556	313	200	139	102	78	62	50
	Deflection (in.)	0.067	0.120	0.187	0.270	0.367	0.479	0.606	0.749
	Deflection Factor	0.0001	0.0004	0.001	0.002	0.004	0.006	0.010	0.015

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
PG3-7 HG3-7	Load (lbs./ft.)	1333	750	480	333	245	188	148	120
	Deflection (in.)	0.133	0.225	0.480	0.667	0.735	1.125	1.333	1.680
	Deflection Factor	0.0001	0.0003	0.001	0.002	0.003	0.006	0.009	0.014

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.
Continuous spans may reduce deflection by as much as 50%.

Part Numbering System

(PG3-7)-24-L09-144

Material
Series
Depth
Width
Bottom Style
Length

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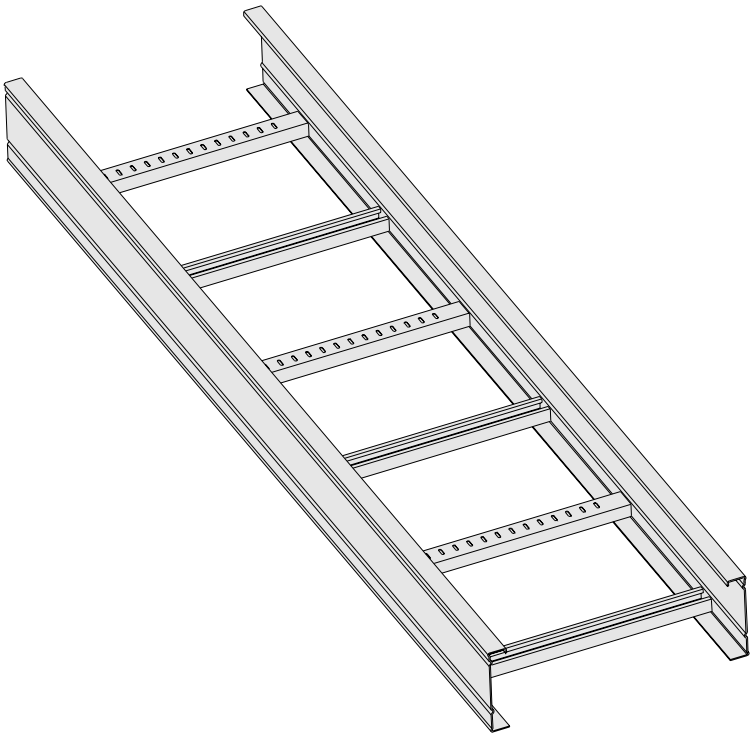
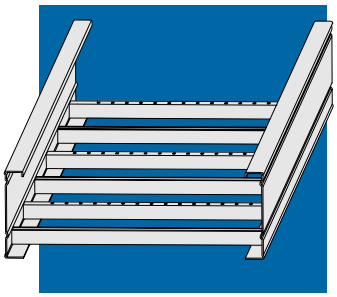
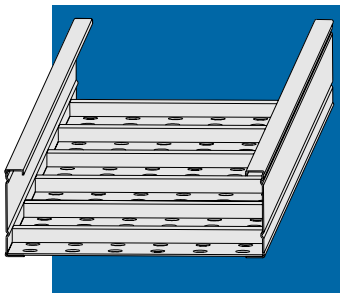
T&B® Cable Tray

Steel Cable Tray – 7" Straight Sections – Ladder, Ventilated and Solid Trough

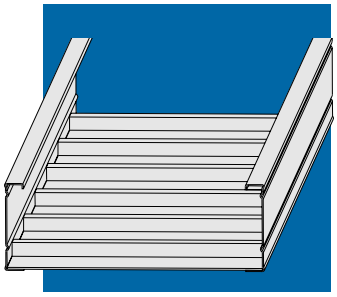




Ladder

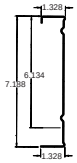


Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG2-7 **HG2-7**		Ix = 7.218 in⁴ Sx = 1.952 in³	8A, 8B, 8C 12A, 12B, 12C 16A, 16B 20A U.L. Cross Sectional Area=1.00 in²	E

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA & UL CLASSIFICATIONS	CSA LOAD RATING*
PG3-7 **HG3-7**		Ix = 10.411 in⁴ Sx = 2.820 in³	8A, 8B, 8C 12A, 12B, 12C 16A, 16B, 16C 20A, 20B, 20C U.L. Cross Sectional Area=1.50 in²	E

Selection Guide

Inside Tray Widths:
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Tray Lengths:
144"=144(12ft.) or 288"=288(24ft.)

Bottom Styles:
L– Standard Ladder Rung Spacing– 6"=L06, 9"=L09, 12"=L12, 18"=L18
V– Ventilated / S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G104 -G117.

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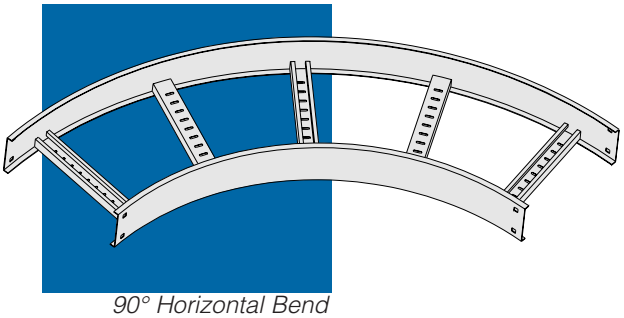
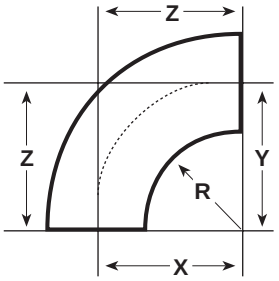
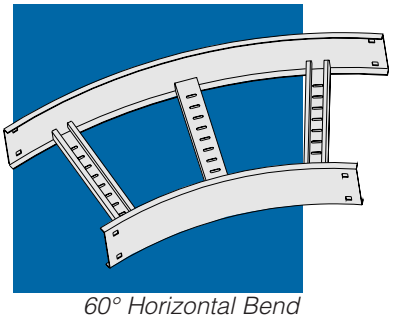
T&B® Cable Tray

Steel Cable Tray – Horizontal Bends – 90° / 60°

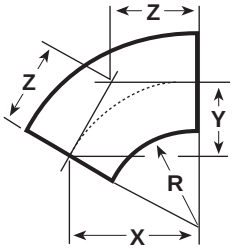


90° Horizontal Bend





60° Horizontal Bend



Part Numbering System

(PGF-4)-24-L-HB60-12

- (PGF-4): Fitting Material
- 24: Siderail Depth
- L: Bottom Style
- HB60: Fitting Type
- 12: Angle
- Width
- Radius

90° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	6	(Prefix)-06-(*)HB90-12	15	15	15
	9	(Prefix)-09-(*)HB90-12	16½	16½	16½
	12	(Prefix)-12-(*)HB90-12	18	18	18
	18	(Prefix)-18-(*)HB90-12	21	21	21
	24	(Prefix)-24-(*)HB90-12	24	24	24
	30	(Prefix)-30-(*)HB90-12	27	27	27
	36	(Prefix)-36-(*)HB90-12	30	30	30
	42	(Prefix)-42-(*)HB90-12	33	33	33
24	6	(Prefix)-06-(*)HB90-24	27	27	27
	9	(Prefix)-09-(*)HB90-24	28½	28½	28½
	12	(Prefix)-12-(*)HB90-24	30	30	30
	18	(Prefix)-18-(*)HB90-24	33	33	33
	24	(Prefix)-24-(*)HB90-24	36	36	36
	30	(Prefix)-30-(*)HB90-24	39	39	39
	36	(Prefix)-36-(*)HB90-24	42	42	42
	42	(Prefix)-42-(*)HB90-24	45	45	45
36	6	(Prefix)-06-(*)HB90-36	39	39	39
	9	(Prefix)-09-(*)HB90-36	40½	40½	40½
	12	(Prefix)-12-(*)HB90-36	42	42	42
	18	(Prefix)-18-(*)HB90-36	45	45	45
	24	(Prefix)-24-(*)HB90-36	48	48	48
	30	(Prefix)-30-(*)HB90-36	51	51	51
	36	(Prefix)-36-(*)HB90-36	54	54	54
	42	(Prefix)-42-(*)HB90-36	57	57	57
48	6	(Prefix)-06-(*)HB90-48	51	51	51
	9	(Prefix)-09-(*)HB90-48	52½	52½	52½
	12	(Prefix)-12-(*)HB90-48	54	54	54
	18	(Prefix)-18-(*)HB90-48	57	57	57
	24	(Prefix)-24-(*)HB90-48	60	60	60
	30	(Prefix)-30-(*)HB90-48	63	63	63
	36	(Prefix)-36-(*)HB90-48	66	66	66
	42	(Prefix)-42-(*)HB90-48	69	69	69

(*) Insert bottom style to complete Catalog No.

60° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.*	DIMENSIONS X	Y	Z
12	6	(Prefix)-06-(*)HB60-12	13	7½	8⅝
	9	(Prefix)-09-(*)HB60-12	14⅝	8¼	9½
	12	(Prefix)-12-(*)HB60-12	15⅝	9	10⅜
	18	(Prefix)-18-(*)HB60-12	18⅜	10½	12⅛
	24	(Prefix)-24-(*)HB60-12	20 13⁄16	12	13⅞
	30	(Prefix)-30-(*)HB60-12	23⅜	13½	15⅝
	36	(Prefix)-36-(*)HB60-12	26	15	17⅝
	42	(Prefix)-42-(*)HB60-12	28⅜	16½	19 1⁄16
24	6	(Prefix)-06-(*)HB60-24	23⅜	13½	15⅝
	9	(Prefix)-09-(*)HB60-24	24 1⁄16	14¼	16⅞
	12	(Prefix)-12-(*)HB60-24	26	15	17⅝
	18	(Prefix)-18-(*)HB60-24	28⅜	16½	19 1⁄16
	24	(Prefix)-24-(*)HB60-24	31 3⁄16	18	20¾
	30	(Prefix)-30-(*)HB60-24	33¾	19½	22¼
	36	(Prefix)-36-(*)HB60-24	36⅜	21	24¼
	42	(Prefix)-42-(*)HB60-24	39	22½	25 15⁄16
36	6	(Prefix)-06-(*)HB60-36	33¾	19½	22½
	9	(Prefix)-09-(*)HB60-36	35 1⁄16	22¼	23¼
	12	(Prefix)-12-(*)HB60-36	36⅜	21	24¼
	18	(Prefix)-18-(*)HB60-36	39	22½	25 15⁄16
	24	(Prefix)-24-(*)HB60-36	41⅜	24	27 1⁄16
	30	(Prefix)-30-(*)HB60-36	44⅜	25½	29⅞
	36	(Prefix)-36-(*)HB60-36	46¾	27	31⅜
	42	(Prefix)-42-(*)HB60-36	49⅜	28½	32⅞
48	6	(Prefix)-06-(*)HB60-48	44⅜	25½	29⅞
	9	(Prefix)-09-(*)HB60-48	45⅞	26¼	30⅝
	12	(Prefix)-12-(*)HB60-48	46¾	27	31⅜
	18	(Prefix)-18-(*)HB60-48	49⅜	28½	32⅞
	24	(Prefix)-24-(*)HB60-48	51 15⁄16	30	34⅝
	30	(Prefix)-30-(*)HB60-48	54⅜	31½	36⅜
	36	(Prefix)-36-(*)HB60-48	57⅞	33	38 1⁄16
	42	(Prefix)-42-(*)HB60-48	59¾	34½	39 13⁄16

Includes 1 pair of splice plates with hardware.

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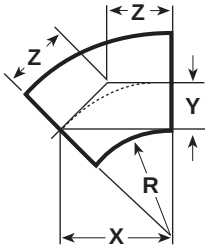
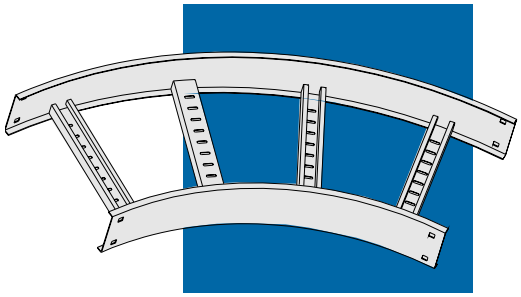
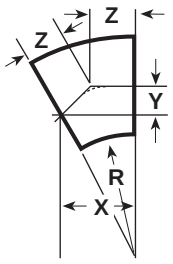
T&B® Cable Tray

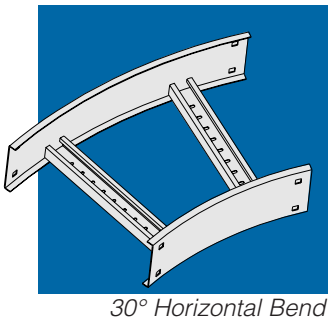
Steel Cable Tray – Horizontal Bends – 45° / 30°





45° Horizontal Bend





30° Horizontal Bend

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

45° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOGUE NO.	DIMENSIONS X	Y	Z
	6	(Prefix)-06-(*)HB45-12	10 5/8	4 3/8	6 3/16
	9	(Prefix)-09-(*)HB45-12	11 11/16	4 13/16	6 13/16
	12	(Prefix)-12-(*)HB45-12	12 3/4	5 1/4	7 7/16
12	18	(Prefix)-18-(*)HB45-12	14 7/8	6 1/8	8 1/16
	24	(Prefix)-24-(*)HB45-12	16 15/16	7 1/16	9 15/16
	30	(Prefix)-30-(*)HB45-12	19 1/16	7 15/16	11 3/16
	36	(Prefix)-36-(*)HB45-12	21 3/16	8 13/16	12 7/16
	42	(Prefix)-42-(*)HB45-12	23 5/16	9 11/16	13 11/16
	6	(Prefix)-06-(*)HB45-24	19 1/16	7 15/16	11 3/16
	9	(Prefix)-09-(*)HB45-24	20 1/8	8 3/8	11 13/16
	12	(Prefix)-12-(*)HB45-24	21 3/16	8 13/16	12 7/16
24	18	(Prefix)-18-(*)HB45-24	23 5/16	9 11/16	13 11/16
	24	(Prefix)-24-(*)HB45-24	25 7/16	10 9/16	14 7/8
	30	(Prefix)-30-(*)HB45-24	27 9/16	11 7/16	16 1/8
	36	(Prefix)-36-(*)HB45-24	29 11/16	12 5/16	17 3/8
	42	(Prefix)-42-(*)HB45-24	31 13/16	13 3/16	18 5/8
	6	(Prefix)-06-(*)HB45-36	27 9/16	11 7/16	16 1/8
	9	(Prefix)-09-(*)HB45-36	28 5/8	11 7/8	16 3/4
	12	(Prefix)-12-(*)HB45-36	29 11/16	12 5/16	17 3/8
36	18	(Prefix)-18-(*)HB45-36	31 13/16	13 3/16	18 5/8
	24	(Prefix)-24-(*)HB45-36	33 15/16	14 1/16	19 7/8
	30	(Prefix)-30-(*)HB45-36	36 1/16	14 15/16	21 1/8
	36	(Prefix)-36-(*)HB45-36	38 3/16	15 13/16	22 3/8
	42	(Prefix)-42-(*)HB45-36	40 5/16	16 11/16	23 5/8
	6	(Prefix)-06-(*)HB45-48	36 1/16	14 15/16	21 1/8
	9	(Prefix)-09-(*)HB45-48	37 1/8	15 3/8	21 3/4
	12	(Prefix)-12-(*)HB45-48	38 3/16	15 13/16	22 3/8
48	18	(Prefix)-18-(*)HB45-48	40 5/16	16 11/16	23 5/8
	24	(Prefix)-24-(*)HB45-48	42 7/16	17 9/16	24 13/16
	30	(Prefix)-30-(*)HB45-48	44 9/16	18 7/16	26 1/16
	36	(Prefix)-36-(*)HB45-48	46 11/16	19 5/16	27 5/16
	42	(Prefix)-42-(*)HB45-48	48 13/16	20 3/16	28 9/16

30° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
	6	(Prefix)-06-(*)HB30-12	7 1/2	2	4
	9	(Prefix)-09-(*)HB30-12	8 1/2	2 3/16	4 7/16
	12	(Prefix)-12-(*)HB30-12	9	2 7/16	4 13/16
12	18	(Prefix)-18-(*)HB30-12	10 1/2	2 13/16	5 5/8
	24	(Prefix)-24-(*)HB30-12	12	3 3/16	6 7/16
	30	(Prefix)-30-(*)HB30-12	13 1/2	3 5/8	7 1/4
	36	(Prefix)-36-(*)HB30-12	15	4	8 1/16
	42	(Prefix)-42-(*)HB30-12	16 1/2	4 7/16	8 13/16
	6	(Prefix)-06-(*)HB30-24	13 1/2	3 5/8	7 1/4
	9	(Prefix)-09-(*)HB30-24	14 1/4	3 13/16	7 5/8
	12	(Prefix)-12-(*)HB30-24	15	4	8 1/16
24	18	(Prefix)-18-(*)HB30-24	16 1/2	4 7/16	8 13/16
	24	(Prefix)-24-(*)HB30-24	18	4 13/16	9 5/8
	30	(Prefix)-30-(*)HB30-24	19 1/2	5 5/16	10 7/16
	36	(Prefix)-36-(*)HB30-24	21	5 5/8	11 1/4
	42	(Prefix)-42-(*)HB30-24	22 1/2	6	12 1/16
	6	(Prefix)-06-(*)HB30-36	19 1/2	5 5/16	10 7/16
	9	(Prefix)-09-(*)HB30-36	20 1/2	5 7/16	10 7/8
	12	(Prefix)-12-(*)HB30-36	21	5 5/8	11 1/4
36	18	(Prefix)-18-(*)HB30-36	22 1/2	6	12 1/16
	24	(Prefix)-24-(*)HB30-36	24	6 7/16	12 7/8
	30	(Prefix)-30-(*)HB30-36	25 1/2	6 13/16	13 11/16
	36	(Prefix)-36-(*)HB30-36	27	7 1/4	14 1/2
	42	(Prefix)-42-(*)HB30-36	28 1/2	7 5/8	15 1/4
	6	(Prefix)-06-(*)HB30-48	25 1/2	6 13/16	13 11/16
	9	(Prefix)-09-(*)HB30-48	26 1/2	7 1/16	14 1/16
	12	(Prefix)-12-(*)HB30-48	27	7 1/4	14 1/2
48	18	(Prefix)-18-(*)HB30-48	28 1/2	7 5/8	15 1/4
	24	(Prefix)-24-(*)HB30-48	30	8 1/16	16 1/16
	30	(Prefix)-30-(*)HB30-48	31 1/2	7 7/16	16 7/8
	36	(Prefix)-36-(*)HB30-48	33	8 7/8	17 11/16
	42	(Prefix)-42-(*)HB30-48	34 1/2	9 1/4	18 1/2

(*) Insert bottom style to complete Catalog No.

Includes 1 pair of splice plates with hardware.

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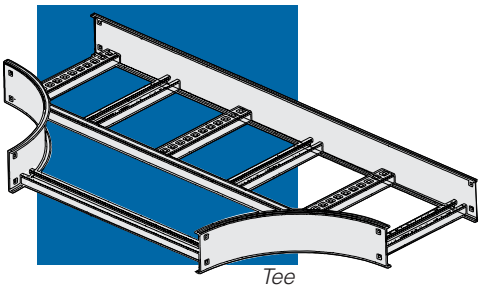
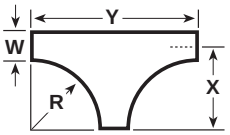
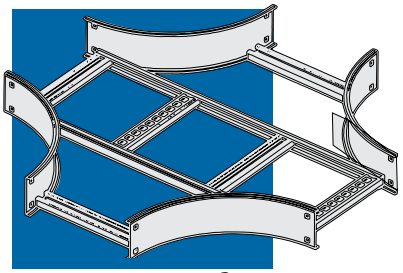
T&B® Cable Tray

Steel Cable Tray – Horizontal Tee, Cross

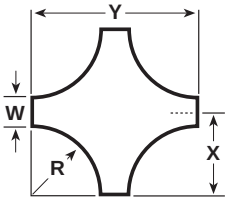


Tee





Cross



Part Numbering System

(PGF-5)-06-L-HT12

- (PGF-5): Fitting Material
- 06: Width
- L: Siderail Depth
- HT: Fitting Type
- 12: Bottom Style / Radius

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

HORIZONTAL TEE

RADIUS	WIDTH		DIMENSIONS	
R		CATALOG NO.*	X	Y
	6	(Prefix)-06-(*)HT12	15	30
	9	(Prefix)-09-(*)HT12	16½	33
	12	(Prefix)-12-(*)HT12	18	36
12	18	(Prefix)-18-(*)HT12	21	42
	24	(Prefix)-24-(*)HT12	24	48
	30	(Prefix)-30-(*)HT12	27	54
	36	(Prefix)-36-(*)HT12	30	60
	42	(Prefix)-42-(*)HT12	33	66
	6	(Prefix)-06-(*)HT24	27	54
	9	(Prefix)-09-(*)HT24	28½	57
	12	(Prefix)-12-(*)HT24	30	60
24	18	(Prefix)-18-(*)HT24	33	66
	24	(Prefix)-24-(*)HT24	36	72
	30	(Prefix)-30-(*)HT24	39	78
	36	(Prefix)-36-(*)HT24	42	84
	42	(Prefix)-42-(*)HT24	45	90
	6	(Prefix)-06-(*)HT36	39	78
	9	(Prefix)-09-(*)HT36	40½	81
	12	(Prefix)-12-(*)HT36	42	84
36	18	(Prefix)-18-(*)HT36	45	90
	24	(Prefix)-24-(*)HT36	48	96
	30	(Prefix)-30-(*)HT36	51	102
	36	(Prefix)-36-(*)HT36	54	108
	42	(Prefix)-42-(*)HT36	57	114
	6	(Prefix)-06-(*)HT48	51	102
	9	(Prefix)-09-(*)HT48	52½	105
	12	(Prefix)-12-(*)HT48	54	108
48	18	(Prefix)-18-(*)HT48	57	114
	24	(Prefix)-24-(*)HT48	60	120
	30	(Prefix)-30-(*)HT48	63	126
	36	(Prefix)-36-(*)HT48	66	132
	42	(Prefix)-42-(*)HT48	69	138

HORIZONTAL CROSS

RADIUS	WIDTH		DIMENSIONS	
R		CATALOG NO.*	X	Y
	6	(Prefix)-06-(*)HX12	15	30
	9	(Prefix)-09-(*)HX12	16½	33
	12	(Prefix)-12-(*)HX12	18	36
12	18	(Prefix)-18-(*)HX12	21	42
	24	(Prefix)-24-(*)HX12	24	48
	30	(Prefix)-30-(*)HX12	27	54
	36	(Prefix)-36-(*)HX12	30	60
	42	(Prefix)-42-(*)HX12	33	66
	6	(Prefix)-06-(*)HX24	27	54
	9	(Prefix)-09-(*)HX24	28½	57
	12	(Prefix)-12-(*)HX24	30	60
24	18	(Prefix)-18-(*)HX24	33	66
	24	(Prefix)-24-(*)HX24	36	72
	30	(Prefix)-30-(*)HX24	39	78
	36	(Prefix)-36-(*)HX24	42	84
	42	(Prefix)-42-(*)HX24	45	90
	6	(Prefix)-06-(*)HX36	39	78
	9	(Prefix)-09-(*)HX36	40½	81
	12	(Prefix)-12-(*)HX36	42	84
36	18	(Prefix)-18-(*)HX36	45	90
	24	(Prefix)-24-(*)HX36	48	96
	30	(Prefix)-30-(*)HX36	51	102
	36	(Prefix)-36-(*)HX36	54	108
	42	(Prefix)-42-(*)HX36	57	114
	6	(Prefix)-06-(*)HX48	51	102
	9	(Prefix)-09-(*)HX48	52½	105
	12	(Prefix)-12-(*)HX48	54	108
48	18	(Prefix)-18-(*)HX48	57	114
	24	(Prefix)-24-(*)HX48	60	120
	30	(Prefix)-30-(*)HX48	63	126
	36	(Prefix)-36-(*)HX48	66	132
	42	(Prefix)-42-(*)HX48	69	138

(*) Insert bottom style to complete Catalog No. Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

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T&B® Cable Tray

Steel Cable Tray – Reducers

Part Numbering System

(PGF-6)-42-36-L-HLR

Fitting Material	Siderail Depth	Width 1	Width 2	Bottom Style	Fitting Type

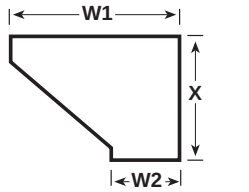
Selection Guide

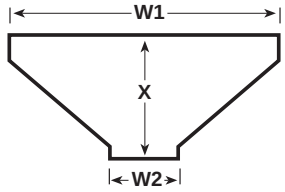
Inside Tray Widths (W1 > W2):

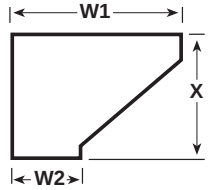
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

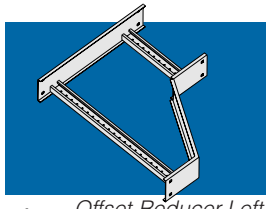
Bottom Styles:

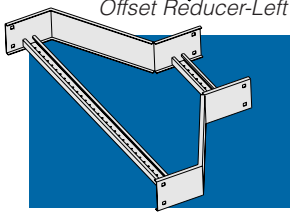
L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

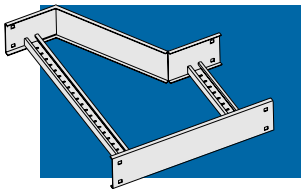







Offset Reducer-Left


Offset Reducer-Straight


Offset Reducer-Right

WIDTHS		LH REDUCER		STRAIGHT REDUCER (Concentric)		RH REDUCER	
			DIMENSIONS		DIMENSIONS		DIMENSIONS
W1	W2	CATALOG NO.*	X	CATALOG NO.*	X	CATALOG NO.*	X
	36	(Prefix)-42-36-(*)-HLR	11 7/16	(Prefix)-42-36-(*)-HSR	9 3/4	(Prefix)-42-36-(*)-HRR	11 7/16
	30	(Prefix)-42-30-(*)-HLR	14 15/16	(Prefix)-42-30-(*)-HSR	11 7/16	(Prefix)-42-30-(*)-HRR	14 15/16
	24	(Prefix)-42-24-(*)-HLR	18 3/8	(Prefix)-42-24-(*)-HSR	13 3/16	(Prefix)-42-24-(*)-HRR	18 3/8
42	18	(Prefix)-42-18-(*)-HLR	21 7/8	(Prefix)-42-18-(*)-HSR	14 15/16	(Prefix)-42-18-(*)-HRR	21 7/8
	12	(Prefix)-42-12-(*)-HLR	25 5/16	(Prefix)-42-12-(*)-HSR	16 1/16	(Prefix)-42-12-(*)-HRR	25 5/16
	9	(Prefix)-42-09-(*)-HLR	27 1/16	(Prefix)-42-09-(*)-HSR	17 1/2	(Prefix)-42-09-(*)-HRR	27 1/16
	6	(Prefix)-42-06-(*)-HLR	28 13/16	(Prefix)-42-06-(*)-HSR	18 3/8	(Prefix)-42-06-(*)-HRR	28 13/16
	30	(Prefix)-36-30-(*)-HLR	11 7/16	(Prefix)-36-30-(*)-HSR	9 3/4	(Prefix)-36-30-(*)-HRR	11 7/16
	24	(Prefix)-36-24-(*)-HLR	14 15/16	(Prefix)-36-24-(*)-HSR	11 7/16	(Prefix)-36-24-(*)-HRR	14 15/16
36	18	(Prefix)-36-18-(*)-HLR	18 3/8	(Prefix)-36-18-(*)-HSR	13 3/16	(Prefix)-36-18-(*)-HRR	18 3/8
	12	(Prefix)-36-12-(*)-HLR	21 7/8	(Prefix)-36-12-(*)-HSR	14 15/16	(Prefix)-36-12-(*)-HRR	21 7/8
	9	(Prefix)-36-09-(*)-HLR	23 9/16	(Prefix)-36-09-(*)-HSR	15 13/16	(Prefix)-36-09-(*)-HRR	23 9/16
	6	(Prefix)-36-06-(*)-HLR	25 5/16	(Prefix)-36-06-(*)-HSR	16 1/16	(Prefix)-36-06-(*)-HRR	25 5/16
	24	(Prefix)-30-24-(*)-HLR	11 7/16	(Prefix)-30-24-(*)-HSR	9 3/4	(Prefix)-30-24-(*)-HRR	11 7/16
	18	(Prefix)-30-18-(*)-HLR	14 15/16	(Prefix)-30-18-(*)-HSR	11 7/16	(Prefix)-30-18-(*)-HRR	14 15/16
30	12	(Prefix)-30-12-(*)-HLR	18 3/8	(Prefix)-30-12-(*)-HSR	13 3/16	(Prefix)-30-12-(*)-HRR	18 3/8
	9	(Prefix)-30-09-(*)-HLR	20 1/8	(Prefix)-30-09-(*)-HSR	14 1/16	(Prefix)-30-09-(*)-HRR	20 1/8
	6	(Prefix)-30-06-(*)-HLR	21 7/8	(Prefix)-30-06-(*)-HSR	14 15/16	(Prefix)-30-06-(*)-HRR	21 7/8
	18	(Prefix)-24-18-(*)-HLR	11 7/16	(Prefix)-24-18-(*)-HSR	9 3/4	(Prefix)-24-18-(*)-HRR	11 7/16
24	12	(Prefix)-24-12-(*)-HLR	14 15/16	(Prefix)-24-12-(*)-HSR	11 7/16	(Prefix)-24-12-(*)-HRR	14 15/16
	9	(Prefix)-24-09-(*)-HLR	16 1/16	(Prefix)-24-09-(*)-HSR	12 5/16	(Prefix)-24-09-(*)-HRR	16 1/16
	6	(Prefix)-24-06-(*)-HLR	18 3/8	(Prefix)-24-06-(*)-HSR	13 3/16	(Prefix)-24-06-(*)-HRR	18 3/8
	12	(Prefix)-18-12-(*)-HLR	11 7/16	(Prefix)-18-12-(*)-HSR	9 3/4	(Prefix)-18-12-(*)-HRR	11 7/16
18	9	(Prefix)-18-09-(*)-HLR	13 3/16	(Prefix)-18-09-(*)-HSR	10 5/8	(Prefix)-18-09-(*)-HRR	13 3/16
	6	(Prefix)-18-06-(*)-HLR	14 15/16	(Prefix)-18-06-(*)-HSR	11 7/16	(Prefix)-18-06-(*)-HRR	14 15/16
12	9	(Prefix)-12-09-(*)-HLR	9 3/4	(Prefix)-12-09-(*)-HSR	8 7/8	(Prefix)-12-09-(*)-HRR	9 3/4
	6	(Prefix)-12-06-(*)-HLR	11 7/16	(Prefix)-12-06-(*)-HSR	9 3/4	(Prefix)-12-06-(*)-HRR	11 7/16
9	6	(Prefix)-09-06-(*)-HLR	9 3/4	(Prefix)-09-06-(*)-HSR	8 7/8	(Prefix)-09-06-(*)-HRR	9 3/4

(*) Insert bottom style to complete Catalog No.

Includes 1 pair of splice plates with hardware.

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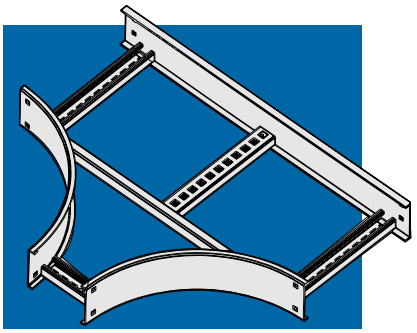
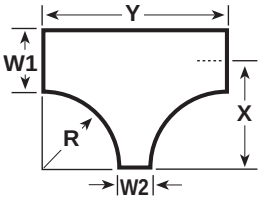
T&B® Cable Tray

Steel Cable Tray – Horizontal Reducing Tee



Reducing Tee



Part Numbering System

(PGF-7)-42-36-L-RT12

- (PGF-7) – Fitting Material
- 42 – Siderail Depth
- 36 – Width 1
- L – Bottom Style
- 12 – Width 2
- RT – Fitting Type
- 12 – Radius

Selection Guide

Inside Tray Widths (W1 > W2):

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

HORIZONTAL REDUCING TEE WIDTHS			(+) 12" RADIUS		(+) 24" RADIUS		(+) 36" RADIUS		(+) 48" RADIUS	
W1	W2	CATALOG NO.*	X	Y	X	Y	X	Y	X	Y
	36	(Prefix)-42-36-(*)-RT(+)	33	60	45	84	57	108	69	132
	30	(Prefix)-42-30-(*)-RT(+)	33	54	45	78	57	102	69	126
	24	(Prefix)-42-24-(*)-RT(+)	33	48	45	72	57	96	69	120
42	18	(Prefix)-42-18-(*)-RT(+)	33	42	45	66	57	90	69	114
	12	(Prefix)-42-12-(*)-RT(+)	33	36	45	60	57	84	69	108
	9	(Prefix)-42-09-(*)-RT(+)	33	33	45	57	57	81	69	105
	6	(Prefix)-42-06-(*)-RT(+)	33	30	45	54	57	78	69	102
	30	(Prefix)-36-30-(*)-RT(+)	30	54	42	78	54	102	66	126
	24	(Prefix)-36-24-(*)-RT(+)	30	48	42	72	54	96	66	120
36	18	(Prefix)-36-18-(*)-RT(+)	30	42	42	66	54	90	66	114
	12	(Prefix)-36-12-(*)-RT(+)	30	36	42	60	54	84	66	108
	9	(Prefix)-36-09-(*)-RT(+)	30	33	42	57	54	81	66	105
	6	(Prefix)-36-06-(*)-RT(+)	30	30	42	54	54	78	66	102
	24	(Prefix)-30-24-(*)-RT(+)	27	48	39	72	51	96	63	120
	18	(Prefix)-30-18-(*)-RT(+)	27	42	39	66	51	90	63	114
30	12	(Prefix)-30-12-(*)-RT(+)	27	36	39	60	51	84	63	108
	9	(Prefix)-30-09-(*)-RT(+)	27	33	39	57	51	81	63	105
	6	(Prefix)-30-06-(*)-RT(+)	27	30	39	54	51	78	63	102
	18	(Prefix)-24-18-(*)-RT(+)	24	42	36	66	48	90	60	114
24	12	(Prefix)-24-12-(*)-RT(+)	24	36	36	60	48	84	60	108
	9	(Prefix)-24-09-(*)-RT(+)	24	33	36	57	48	81	60	105
	6	(Prefix)-24-06-(*)-RT(+)	24	30	36	54	48	78	60	102
	12	(Prefix)-18-12-(*)-RT(+)	21	36	33	60	45	84	57	108
18	9	(Prefix)-18-09-(*)-RT(+)	21	33	33	57	45	81	57	105
	6	(Prefix)-18-06-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	(Prefix)-12-09-(*)-RT(+)	18	33	30	57	42	81	54	105
	6	(Prefix)-12-06-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	(Prefix)-09-06-(*)-RT(+)	16½	30	28½	54	40½	78	52½	102

(*) Insert bottom style to complete Catalog No. (+) Insert radius (12"-48"). Includes 2 pairs of splice plates with hardware.

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T&B® Cable Tray

Steel Cable Tray – Horizontal Expanding Tee

Part Numbering System

(PGF-4)-06-09-L-ET24

Fitting Material	Siderail Depth	Width 1	Width 2	Bottom Style	Fitting Type	Radius
(PGF-4)		06	09	L	ET	24

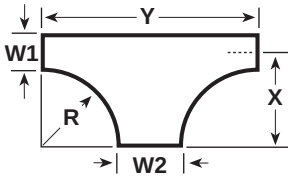
Selection Guide

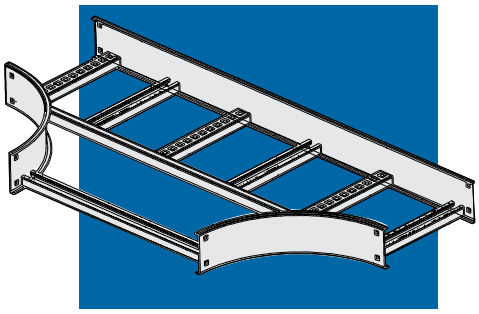
Inside Tray Widths (W1 < W2):

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid





Expanding Tee

G

T&B® Cable Tray

HORIZONTAL EXPANDING TEE WIDTHS			(+) 12" RADIUS		(+) 24" RADIUS		(+) 36" RADIUS		(+) 48" RADIUS	
W1	W2	CATALOG NO.*	X	Y	X	Y	X	Y	X	Y
36	42	(Prefix)-36-42-(*)-ET(+)	30	66	42	90	54	114	66	138
30	36	(Prefix)-30-36-(*)-ET(+)	27	60	39	84	51	108	63	132
	42	(Prefix)-30-42-(*)-ET(+)	27	66	39	90	51	114	63	138
	30	(Prefix)-24-30-(*)-ET(+)	24	54	36	78	48	102	60	126
24	36	(Prefix)-24-36-(*)-ET(+)	24	60	36	84	48	108	60	132
	42	(Prefix)-24-42-(*)-ET(+)	24	66	36	90	48	114	60	138
	24	(Prefix)-18-24-(*)-ET(+)	21	48	33	72	45	96	57	120
18	30	(Prefix)-18-30-(*)-ET(+)	21	54	33	78	45	102	57	126
	36	(Prefix)-18-36-(*)-ET(+)	21	60	33	84	45	108	57	132
	42	(Prefix)-18-42-(*)-ET(+)	21	66	33	90	45	114	57	138
	18	(Prefix)-12-18-(*)-ET(+)	18	42	30	66	42	90	54	114
	24	(Prefix)-12-24-(*)-ET(+)	18	48	30	72	42	96	54	120
12	30	(Prefix)-12-30-(*)-ET(+)	18	54	30	78	42	102	54	126
	36	(Prefix)-12-36-(*)-ET(+)	18	60	30	84	42	108	54	132
	42	(Prefix)-12-42-(*)-ET(+)	18	66	30	90	42	114	54	138
	12	(Prefix)-09-12-(*)-ET(+)	16½	36	28½	60	40½	84	52½	108
	18	(Prefix)-09-18-(*)-ET(+)	16½	42	28½	66	40½	90	52½	114
9	24	(Prefix)-09-24-(*)-ET(+)	16½	48	28½	72	40½	96	52½	120
	30	(Prefix)-09-30-(*)-ET(+)	16½	54	28½	78	40½	102	52½	126
	36	(Prefix)-09-36-(*)-ET(+)	16½	60	28½	84	40½	108	52½	132
	42	(Prefix)-09-42-(*)-ET(+)	16½	66	28½	90	40½	114	52½	138
	9	(Prefix)-06-09-(*)-ET(+)	15	33	27	57	39	81	51	105
	12	(Prefix)-06-12-(*)-ET(+)	15	36	27	60	39	84	51	108
	18	(Prefix)-06-18-(*)-ET(+)	15	42	27	66	39	90	51	114
6	24	(Prefix)-06-24-(*)-ET(+)	15	48	27	72	39	96	51	120
	30	(Prefix)-06-30-(*)-ET(+)	15	54	27	78	39	102	51	126
	36	(Prefix)-06-36-(*)-ET(+)	15	60	27	84	39	108	51	132
	42	(Prefix)-06-42-(*)-ET(+)	15	66	27	90	39	114	51	138

(*) Insert bottom style to complete Catalog No. (+) Insert radius (12"-48"). Includes 2 pairs of splice plates with hardware.

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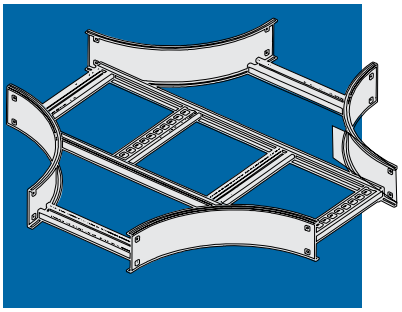
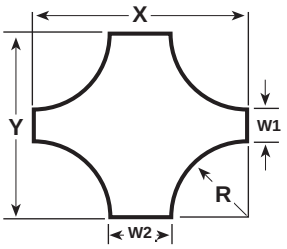
T&B® Cable Tray

Steel Cable Tray – Horizontal Expanding / Reducing Cross



Horizontal Expanding / Reducing Cross



Part Numbering System

(PGF-5)-36-42-L-EX36

- (PGF-5) – Fitting Material
- 36 – Width 1
- 42 – Width 2
- L – Bottom Style
- EX – Siderail Depth
- 36 – Radius
- Fitting Type

Selection Guide

Inside Tray Widths (W1 < W2):

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

HORIZONTAL EXPANDING/REDUCING CROSS WIDTHS			(+) 12" RADIUS		(+) 24" RADIUS		(+) 36" RADIUS		(+) 48" RADIUS	
W1	W2	CATALOG NO.*	X	Y	X	Y	X	Y	X	Y
36		(Prefix)-36-42-(*)-EX(+)	66	60	90	84	114	108	138	132
30		(Prefix)-30-42-(*)-EX(+)	66	54	90	78	114	102	138	126
24		(Prefix)-24-42-(*)-EX(+)	66	48	90	72	114	96	138	120
18	42	(Prefix)-18-42-(*)-EX(+)	66	42	90	66	114	90	138	114
12		(Prefix)-12-42-(*)-EX(+)	66	36	90	60	114	84	138	108
9		(Prefix)-09-42-(*)-EX(+)	66	33	90	57	114	81	138	105
6		(Prefix)-06-42-(*)-EX(+)	66	30	90	54	114	78	138	102
30		(Prefix)-30-36-(*)-EX(+)	60	54	84	78	108	102	132	126
24		(Prefix)-24-36-(*)-EX(+)	60	48	84	72	108	96	132	120
18	36	(Prefix)-18-36-(*)-EX(+)	60	42	84	66	108	90	132	114
12		(Prefix)-12-36-(*)-EX(+)	60	36	84	60	108	84	132	108
9		(Prefix)-09-36-(*)-EX(+)	60	33	84	57	108	81	132	105
6		(Prefix)-06-36-(*)-EX(+)	60	30	84	54	108	78	132	102
24		(Prefix)-24-30-(*)-EX(+)	54	48	78	72	102	96	126	120
18		(Prefix)-18-30-(*)-EX(+)	54	42	78	66	102	90	126	114
12	30	(Prefix)-12-30-(*)-EX(+)	54	36	78	60	102	84	126	108
9		(Prefix)-09-30-(*)-EX(+)	54	33	78	57	102	81	126	105
6		(Prefix)-06-30-(*)-EX(+)	54	30	78	54	102	78	126	102
18		(Prefix)-18-24-(*)-EX(+)	48	42	72	66	96	90	120	114
12	24	(Prefix)-12-24-(*)-EX(+)	48	36	72	60	96	84	120	108
9		(Prefix)-09-24-(*)-EX(+)	48	33	72	57	96	81	120	105
6		(Prefix)-06-24-(*)-EX(+)	48	30	72	54	96	78	120	102
12		(Prefix)-12-18-(*)-EX(+)	42	36	66	60	90	84	114	108
9	18	(Prefix)-09-18-(*)-EX(+)	42	33	66	57	90	81	114	105
6		(Prefix)-06-18-(*)-EX(+)	42	30	66	54	90	78	114	102
9	12	(Prefix)-09-12-(*)-EX(+)	36	33	60	57	84	81	108	105
6		(Prefix)-06-12-(*)-EX(+)	36	30	60	54	84	78	108	102
6	9	(Prefix)-06-09-(*)-EX(+)	33	30	57	54	81	78	105	102

(*) Insert bottom style to complete Catalog No. (+) Insert radius (12"-48"). Includes 3 pairs of splice plates with hardware.

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T&B® Cable Tray

Steel Cable Tray – Horizontal Wye 45°

Part Numbering System

(PGF-6)-36-L-HYL36

- (PGF-6) — Fitting Material
- 36 — Width
- L — Siderail Depth
- HYL — Bottom Style
- 36 — Fitting Type
- Radius

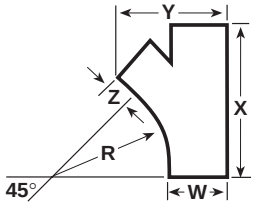
Selection Guide

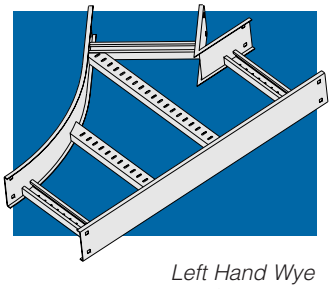
Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

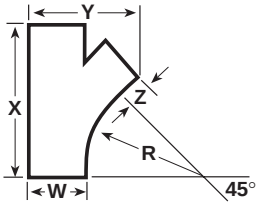
Bottom Styles:

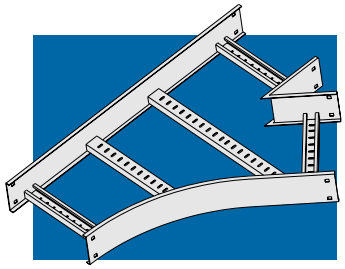
L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid





Left Hand Wye





Right Hand Wye

45° HORIZONTAL BEND

RADIUS R	WIDTH	LEFT HAND WYE CAT. NO.*	RIGHT HAND WYE CAT. NO.*	DIMENSIONS X	Y	Z
	6	(Prefix)-06-(*)-HYL12	(Prefix)-06-(*)-HYR12	23 7/16	15 5/16	8
	9	(Prefix)-09-(*)-HYL12	(Prefix)-09-(*)-HYR12	27 11/16	20 7/16	11
	12	(Prefix)-12-(*)-HYL12	(Prefix)-12-(*)-HYR12	31 15/16	25 9/16	14
12	18	(Prefix)-18-(*)-HYL12	(Prefix)-18-(*)-HYR12	40 3/8	35 13/16	20
	24	(Prefix)-24-(*)-HYL12	(Prefix)-24-(*)-HYR12	48 7/8	46 1/16	26
	30	(Prefix)-30-(*)-HYL12	(Prefix)-30-(*)-HYR12	57 3/8	56 1/4	32
	36	(Prefix)-36-(*)-HYL12	(Prefix)-36-(*)-HYR12	65 7/8	66 1/2	38
	42	(Prefix)-42-(*)-HYL12	(Prefix)-42-(*)-HYR12	77 5/16	76 3/4	44
	6	(Prefix)-06-(*)-HYL24	(Prefix)-06-(*)-HYR24	28 3/8	15 5/16	3
	9	(Prefix)-09-(*)-HYL24	(Prefix)-09-(*)-HYR24	32 5/8	20 7/16	6
	12	(Prefix)-12-(*)-HYL24	(Prefix)-12-(*)-HYR24	36 7/8	25 9/16	9
24	18	(Prefix)-18-(*)-HYL24	(Prefix)-18-(*)-HYR24	45 3/8	35 13/16	15
	24	(Prefix)-24-(*)-HYL24	(Prefix)-24-(*)-HYR24	53 7/8	46 1/16	21
	30	(Prefix)-30-(*)-HYL24	(Prefix)-30-(*)-HYR24	62 5/16	56 1/4	27
	36	(Prefix)-36-(*)-HYL24	(Prefix)-36-(*)-HYR24	70 13/16	66 1/2	33
	42	(Prefix)-42-(*)-HYL24	(Prefix)-42-(*)-HYR24	79 5/16	76 3/4	39
	6	(Prefix)-06-(*)-HYL36	(Prefix)-06-(*)-HYR36	38 5/16	18 13/16	3
	9	(Prefix)-09-(*)-HYL36	(Prefix)-09-(*)-HYR36	42 9/16	23 15/16	6
	12	(Prefix)-12-(*)-HYL36	(Prefix)-12-(*)-HYR36	46 13/16	29 1/16	9
36	18	(Prefix)-18-(*)-HYL36	(Prefix)-18-(*)-HYR36	55 1/4	39 1/4	15
	24	(Prefix)-24-(*)-HYL36	(Prefix)-24-(*)-HYR36	63 3/4	49 1/2	21
	30	(Prefix)-30-(*)-HYL36	(Prefix)-30-(*)-HYR36	72 1/4	59 3/4	27
	36	(Prefix)-36-(*)-HYL36	(Prefix)-36-(*)-HYR36	80 3/4	70	33
	42	(Prefix)-42-(*)-HYL36	(Prefix)-42-(*)-HYR36	89 1/4	80 1/4	39
	6	(Prefix)-06-(*)-HYL48	(Prefix)-06-(*)-HYR48	48 1/4	22 5/16	3
	9	(Prefix)-09-(*)-HYL48	(Prefix)-09-(*)-HYR48	52 1/2	27 7/16	6
	12	(Prefix)-12-(*)-HYL48	(Prefix)-12-(*)-HYR48	56 3/4	32 9/16	9
48	18	(Prefix)-18-(*)-HYL48	(Prefix)-18-(*)-HYR48	65 1/4	42 13/16	15
	24	(Prefix)-24-(*)-HYL48	(Prefix)-24-(*)-HYR48	73 11/16	53 1/16	21
	30	(Prefix)-30-(*)-HYL48	(Prefix)-30-(*)-HYR48	82 3/16	63 1/4	27
	36	(Prefix)-36-(*)-HYL48	(Prefix)-36-(*)-HYR48	90 11/16	73 1/2	33
	42	(Prefix)-42-(*)-HYL48	(Prefix)-42-(*)-HYR48	99 3/16	83 3/4	39

(*) Insert bottom style to complete Catalog No.

Includes 2 pairs of splice plates with hardware.

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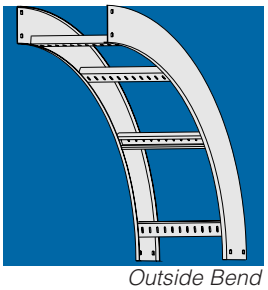
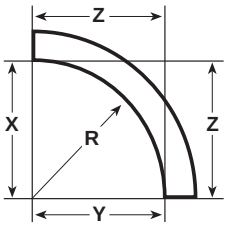
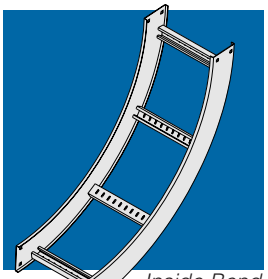
T&B® Cable Tray

Steel Cable Tray – Vertical Bend – 90°

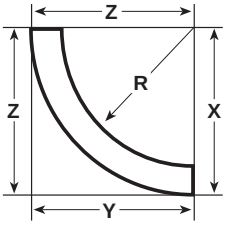


Outside Bend





Inside Bend



Part Numbering System

(PGF-7)-30-L-VI90-36

- (PGF-7) – Fitting Material
- 30 – Width
- L – Siderail Depth
- VI – Fitting Type
- 90 – Bottom Style
- 36 – Degree
- Radius

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

RADIUS R	WIDTH	CATALOG NO.*	(+) VO SIDERAIL HEIGHT 3½"–7" X	Y	Z	(+) VI SIDERAIL HEIGHT 3½" X	Y	Z	4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	(Prefix)-06-(*)-(+)90-12	12	12	12	15⅝	15⅝	15⅝	16 3/16	16 3/16	16 3/16	17 3/16	17 3/16	17 3/16	18 3/16	18 3/16	18 3/16	19 3/16	19 3/16	19 3/16
	9	(Prefix)-09-(*)-(+)90-12																		
	12	(Prefix)-12-(*)-(+)90-12																		
	18	(Prefix)-18-(*)-(+)90-12																		
	24	(Prefix)-24-(*)-(+)90-12																		
	30	(Prefix)-30-(*)-(+)90-12																		
	36	(Prefix)-36-(*)-(+)90-12																		
	42	(Prefix)-42-(*)-(+)90-12																		
24	6	(Prefix)-06-(*)-(+)90-24	24	24	24	27⅝	27⅝	27⅝	28 3/16	28 3/16	28 3/16	29 3/16	29 3/16	29 3/16	30 3/16	30 3/16	30 3/16	31 3/16	31 3/16	31 3/16
	9	(Prefix)-09-(*)-(+)90-24																		
	12	(Prefix)-12-(*)-(+)90-24																		
	18	(Prefix)-18-(*)-(+)90-24																		
	24	(Prefix)-24-(*)-(+)90-24																		
	30	(Prefix)-30-(*)-(+)90-24																		
	36	(Prefix)-36-(*)-(+)90-24																		
	42	(Prefix)-42-(*)-(+)90-24																		
36	6	(Prefix)-06-(*)-(+)90-36	36	36	36	39⅝	39⅝	39⅝	40 3/16	40 3/16	40 3/16	41 3/16	41 3/16	41 3/16	42 3/16	42 3/16	42 3/16	43 3/16	43 3/16	43 3/16
	9	(Prefix)-09-(*)-(+)90-36																		
	12	(Prefix)-12-(*)-(+)90-36																		
	18	(Prefix)-18-(*)-(+)90-36																		
	24	(Prefix)-24-(*)-(+)90-36																		
	30	(Prefix)-30-(*)-(+)90-36																		
	36	(Prefix)-36-(*)-(+)90-36																		
	42	(Prefix)-42-(*)-(+)90-36																		
48	6	(Prefix)-06-(*)-(+)90-48	48	48	48	51⅝	51⅝	51⅝	52 3/16	52 3/16	52 3/16	53 3/16	53 3/16	53 3/16	54 3/16	54 3/16	54 3/16	55 3/16	55 3/16	55 3/16
	9	(Prefix)-09-(*)-(+)90-48																		
	12	(Prefix)-12-(*)-(+)90-48																		
	18	(Prefix)-18-(*)-(+)90-48																		
	24	(Prefix)-24-(*)-(+)90-48																		
	30	(Prefix)-30-(*)-(+)90-48																		
	36	(Prefix)-36-(*)-(+)90-48																		
	42	(Prefix)-42-(*)-(+)90-48																		

(*) Insert bottom style to complete Catalog No. (+) insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

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T&B® Cable Tray

Steel Cable Tray – Vertical Bend – 60°

Part Numbering System

(PGF-4)-36-V-VO60-24

Fitting Material	Siderail Depth	Width	Bottom Style	Fitting Type	Degree	Radius

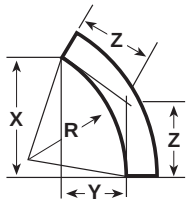
Selection Guide

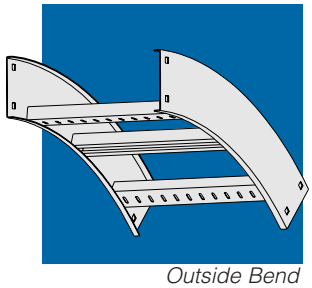
Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

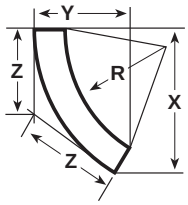
Bottom Styles:

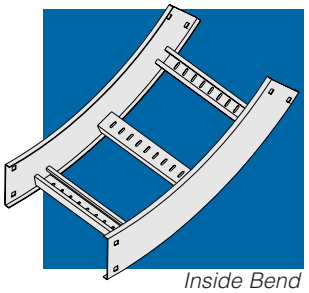
L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid





Outside Bend





Inside Bend

RADIUS R	WIDTH	CATALOG NO.*	(+) VO SIDERAIL HEIGHT 3½"–7" X	Y	Z	(+) VI SIDERAIL HEIGHT 3½" X	Y	Z	4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	(Prefix)-06-(*)-(+)60-12	10 3/8	6	6 15/16	13 1/2	9 5/8	9	14	10 3/16	9 3/8	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
	9	(Prefix)-09-(*)-(+)60-12																		
	12	(Prefix)-12-(*)-(+)60-12																		
	18	(Prefix)-18-(*)-(+)60-12																		
	24	(Prefix)-24-(*)-(+)60-12																		
	30	(Prefix)-30-(*)-(+)60-12																		
	36	(Prefix)-36-(*)-(+)60-12																		
	42	(Prefix)-42-(*)-(+)60-12																		
24	6	(Prefix)-06-(*)-(+)60-24	20 13/16	12	13 7/8	23 15/16	15 5/8	15 15/16	24 7/16	16 3/16	16 1/4	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
	9	(Prefix)-09-(*)-(+)60-24																		
	12	(Prefix)-12-(*)-(+)60-24																		
	18	(Prefix)-18-(*)-(+)60-24																		
	24	(Prefix)-24-(*)-(+)60-24																		
	30	(Prefix)-30-(*)-(+)60-24																		
	36	(Prefix)-36-(*)-(+)60-24																		
	42	(Prefix)-42-(*)-(+)60-24																		
36	6	(Prefix)-06-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21 5/8	22 7/8	34 13/16	22 3/16	23 3/16	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
	9	(Prefix)-09-(*)-(+)60-36																		
	12	(Prefix)-12-(*)-(+)60-36																		
	18	(Prefix)-18-(*)-(+)60-36																		
	24	(Prefix)-24-(*)-(+)60-36																		
	30	(Prefix)-30-(*)-(+)60-36																		
	36	(Prefix)-36-(*)-(+)60-36																		
	42	(Prefix)-42-(*)-(+)60-36																		
48	6	(Prefix)-06-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27 5/8	29 13/16	45 3/16	28 3/16	30 1/8	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
	9	(Prefix)-09-(*)-(+)60-48																		
	12	(Prefix)-12-(*)-(+)60-48																		
	18	(Prefix)-18-(*)-(+)60-48																		
	24	(Prefix)-24-(*)-(+)60-48																		
	30	(Prefix)-30-(*)-(+)60-48																		
	36	(Prefix)-36-(*)-(+)60-48																		
	42	(Prefix)-42-(*)-(+)60-48																		

(*) Insert bottom style to complete Catalog No. (+) insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

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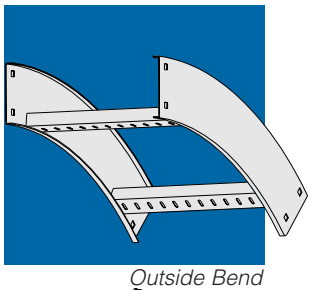
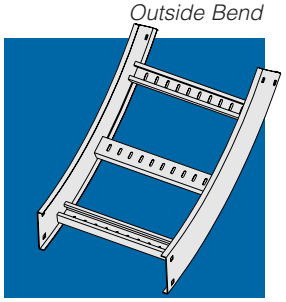
T&B® Cable Tray

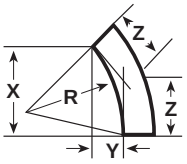
Steel Cable Tray – Vertical Bend 45°

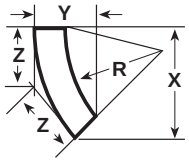


Outside Bend



Inside Bend





Part Numbering System

(PGF-5)-24-S-VI45-48

- Fitting Material
- Siderail Depth
- Width
- Bottom Style
- Fitting Type
- Degree
- Radius

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

RADIUS R	WIDTH	CATALOG NO.*	(+) VO SIDERAIL HEIGHT 3½"–7" X	Y	Z	(+) VI SIDERAIL HEIGHT 3½" X	Y	Z	4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	(Prefix)-06-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16	12⅛	8 11/16	7⅛	12⅞	9 11/16	7½	13 9/16	10 11/16	7 15/16
	9	(Prefix)-09-(*)-(+)45-12																		
	12	(Prefix)-12-(*)-(+)45-12																		
	18	(Prefix)-18-(*)-(+)45-12																		
	24	(Prefix)-24-(*)-(+)45-12																		
	30	(Prefix)-30-(*)-(+)45-12																		
	36	(Prefix)-36-(*)-(+)45-12																		
	42	(Prefix)-42-(*)-(+)45-12																		
24	6	(Prefix)-06-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 1/16	20⅝	12 3/16	12 1/16	21⅜	13 3/16	12½	22 1/16	14 3/16	12 15/16
	9	(Prefix)-09-(*)-(+)45-24																		
	12	(Prefix)-12-(*)-(+)45-24																		
	18	(Prefix)-18-(*)-(+)45-24																		
	24	(Prefix)-24-(*)-(+)45-24																		
	30	(Prefix)-30-(*)-(+)45-24																		
	36	(Prefix)-36-(*)-(+)45-24																		
	42	(Prefix)-42-(*)-(+)45-24																		
36	6	(Prefix)-06-(*)-(+)45-36	25 7/16	10 3/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝	29⅛	15¾	17 1/16	29 13/16	16¾	17½	30½	17¾	17⅞
	9	(Prefix)-09-(*)-(+)45-36																		
	12	(Prefix)-12-(*)-(+)45-36																		
	18	(Prefix)-18-(*)-(+)45-36																		
	24	(Prefix)-24-(*)-(+)45-36																		
	30	(Prefix)-30-(*)-(+)45-36																		
	36	(Prefix)-36-(*)-(+)45-36																		
	42	(Prefix)-42-(*)-(+)45-36																		
48	6	(Prefix)-06-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝	37⅝	19¼	22	39⅝	20¼	22 7/16	39	21¼	22⅞
	9	(Prefix)-09-(*)-(+)45-48																		
	12	(Prefix)-12-(*)-(+)45-48																		
	18	(Prefix)-18-(*)-(+)45-48																		
	24	(Prefix)-24-(*)-(+)45-48																		
	30	(Prefix)-30-(*)-(+)45-48																		
	36	(Prefix)-36-(*)-(+)45-48																		
	42	(Prefix)-42-(*)-(+)45-48																		

(*) Insert bottom style to complete Catalog No. (+) insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

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T&B® Cable Tray

Steel Cable Tray – Vertical Bend 30°

Part Numbering System

(PGF-6)-12-L-VO30-24

- (PGF-6) – Fitting Material
- 12 – Width
- L – Siderail Depth
- V – Bottom Style
- O – Fitting Type
- 30 – Degree
- 24 – Radius

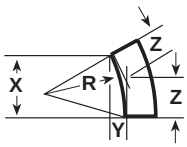
Selection Guide

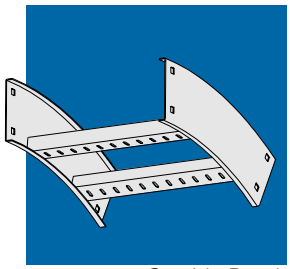
Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

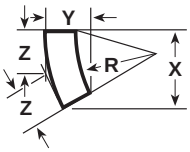
Bottom Styles:

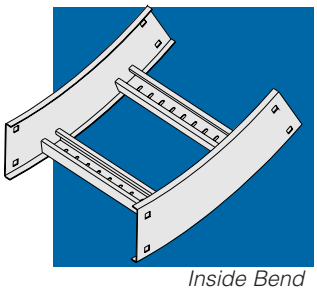
L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid





Outside Bend





Inside Bend

RADIUS R	WIDTH	CATALOG NO.*	(+) VO SIDERAIL HEIGHT 3½"–7" X	Y	Z	(+) VI SIDERAIL HEIGHT 3½" X	Y	Z	4" X	Y	Z	5" X	Y	Z	6" X	Y	Z	7" X	Y	Z
12	6	(Prefix)-06-(*)-(+)30-12	6	1 5/8	3 3/16	7 13/16	5 1/4	4 3/16	8 1/16	15 13/16	4 5/16	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
	9	(Prefix)-09-(*)-(+)30-12																		
	12	(Prefix)-12-(*)-(+)30-12																		
	18	(Prefix)-18-(*)-(+)30-12																		
	24	(Prefix)-24-(*)-(+)30-12																		
	30	(Prefix)-30-(*)-(+)30-12																		
	36	(Prefix)-36-(*)-(+)30-12																		
	42	(Prefix)-42-(*)-(+)30-12																		
24	6	(Prefix)-06-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7 3/8	14 1/16	7 3/8	7 9/16	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
	9	(Prefix)-09-(*)-(+)30-24																		
	12	(Prefix)-12-(*)-(+)30-24																		
	18	(Prefix)-18-(*)-(+)30-24																		
	24	(Prefix)-24-(*)-(+)30-24																		
	30	(Prefix)-30-(*)-(+)30-24																		
	36	(Prefix)-36-(*)-(+)30-24																		
	42	(Prefix)-42-(*)-(+)30-24																		
36	6	(Prefix)-06-(*)-(+)30-36	18	4 13/16	9 5/8	19 13/16	8 7/16	10 5/8	20 1/16	9	10 3/4	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
	9	(Prefix)-09-(*)-(+)30-36																		
	12	(Prefix)-12-(*)-(+)30-36																		
	18	(Prefix)-18-(*)-(+)30-36																		
	24	(Prefix)-24-(*)-(+)30-36																		
	30	(Prefix)-30-(*)-(+)30-36																		
	36	(Prefix)-36-(*)-(+)30-36																		
	42	(Prefix)-42-(*)-(+)30-36																		
48	6	(Prefix)-06-(*)-(+)30-48	24	6 7/16	12 7/8	25 13/16	10 1/16	13 13/16	26 1/16	10 5/8	14	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
	9	(Prefix)-09-(*)-(+)30-48																		
	12	(Prefix)-12-(*)-(+)30-48																		
	18	(Prefix)-18-(*)-(+)30-48																		
	24	(Prefix)-24-(*)-(+)30-48																		
	30	(Prefix)-30-(*)-(+)30-48																		
	36	(Prefix)-36-(*)-(+)30-48																		
	42	(Prefix)-42-(*)-(+)30-48																		

(*) Insert bottom style to complete Catalog No. (+) insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

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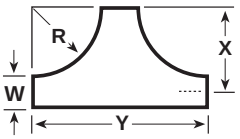
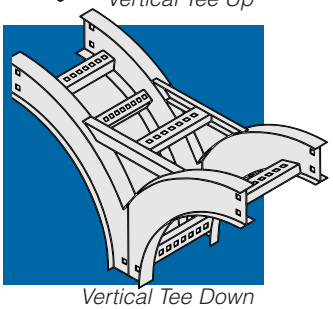
T&B® Cable Tray

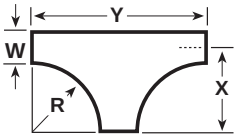
Steel Cable Tray – Vertical Tee Up/Down

Vertical Tee Up





Vertical Tee Down



Part Numbering System

(PGF-6)-24-L-VTD12

- (PGF-6): Fitting Material
- 24: Width
- L: Fitting Type
- VTD12: Fitting Type
- 24: Siderail Depth
- L: Bottom Style
- 12: Radius

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"=L09,
V– Ventilated / S– Solid

RADIUS	WIDTH	VERTICAL TEE UP	VERTICAL TEE DOWN	SIDERAIL HEIGHT "H" 3½"		4"		5"		6"		7"	
R	W	CATALOG NO.	CATALOG NO.	X	Y	X	Y	X	Y	X	Y	X	Y
12	6	(Prefix)-06-(*)-VTU12	(Prefix)-06-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16	14 5/8	29 3/16	15 1/8	30 3/16	15 5/8	31 3/16
	9	(Prefix)-09-(*)-VTU12	(Prefix)-09-(*)-VTD12										
	12	(Prefix)-12-(*)-VTU12	(Prefix)-12-(*)-VTD12										
	18	(Prefix)-18-(*)-VTU12	(Prefix)-18-(*)-VTD12										
	24	(Prefix)-24-(*)-VTU12	(Prefix)-24-(*)-VTD12										
	30	(Prefix)-30-(*)-VTU12	(Prefix)-30-(*)-VTD12										
	36	(Prefix)-36-(*)-VTU12	(Prefix)-36-(*)-VTD12										
	42	(Prefix)-42-(*)-VTU12	(Prefix)-42-(*)-VTD12										
24	6	(Prefix)-06-(*)-VTU24	(Prefix)-06-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16	26 5/8	53 3/16	27 1/8	54 3/16	27 5/8	55 3/16
	9	(Prefix)-09-(*)-VTU24	(Prefix)-09-(*)-VTD24										
	12	(Prefix)-12-(*)-VTU24	(Prefix)-12-(*)-VTD24										
	18	(Prefix)-18-(*)-VTU24	(Prefix)-18-(*)-VTD24										
	24	(Prefix)-24-(*)-VTU24	(Prefix)-24-(*)-VTD24										
	30	(Prefix)-30-(*)-VTU24	(Prefix)-30-(*)-VTD24										
	36	(Prefix)-36-(*)-VTU24	(Prefix)-36-(*)-VTD24										
	42	(Prefix)-42-(*)-VTU24	(Prefix)-42-(*)-VTD24										
36	6	(Prefix)-06-(*)-VTU36	(Prefix)-06-(*)-VTD36	NA	NA	38 1/8	76 3/16	38 5/8	77 3/16	39 1/8	78 3/16	39 5/8	79 3/16
	9	(Prefix)-09-(*)-VTU36	(Prefix)-09-(*)-VTD36										
	12	(Prefix)-12-(*)-VTU36	(Prefix)-12-(*)-VTD36										
	18	(Prefix)-18-(*)-VTU36	(Prefix)-18-(*)-VTD36										
	24	(Prefix)-24-(*)-VTU36	(Prefix)-24-(*)-VTD36										
	30	(Prefix)-30-(*)-VTU36	(Prefix)-30-(*)-VTD36										
	36	(Prefix)-36-(*)-VTU36	(Prefix)-36-(*)-VTD36										
	42	(Prefix)-42-(*)-VTU36	(Prefix)-42-(*)-VTD36										
48	6	(Prefix)-06-(*)-VTU48	(Prefix)-06-(*)-VTD48	NA	NA	50 1/8	100 3/16	50 5/8	101 3/16	51 1/8	102 3/16	51 5/8	103 3/16
	9	(Prefix)-09-(*)-VTU48	(Prefix)-09-(*)-VTD48										
	12	(Prefix)-12-(*)-VTU48	(Prefix)-12-(*)-VTD48										
	18	(Prefix)-18-(*)-VTU48	(Prefix)-18-(*)-VTD48										
	24	(Prefix)-24-(*)-VTU48	(Prefix)-24-(*)-VTD48										
	30	(Prefix)-30-(*)-VTU48	(Prefix)-30-(*)-VTD48										
	36	(Prefix)-36-(*)-VTU48	(Prefix)-36-(*)-VTD48										
	42	(Prefix)-42-(*)-VTU48	(Prefix)-42-(*)-VTD48										

(*) Insert bottom style to complete Catalog No.

Includes 2 pairs of splice plates with hardware.

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T&B® Cable Tray

Steel Cable Tray – Cable Support Fitting

Part Numbering System

(HDF-7)-24-V-CS9012

Fitting Material	Width	Fitting Type	Radius
Siderail Depth	Bottom Style	Degree	

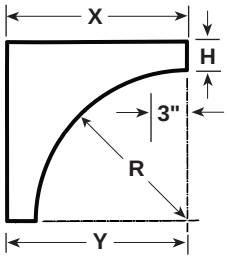
Selection Guide

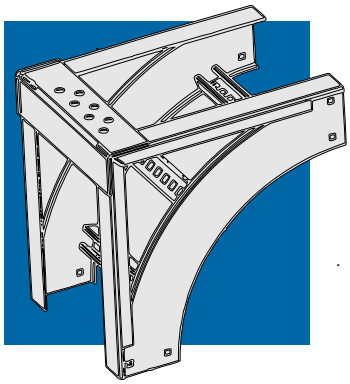
Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid





Steel Cable Support Fitting

RADIUS	WIDTH		SIDERAIL HEIGHT "H" 3⅞"	4"	5"	6"	7"
R	W	CATALOG NO.			X		
12	6	(Prefix)-06-(*)-CS12	15.625	16.188	17.188	18.188	19.188
	9	(Prefix)-09-(*)-CS12					
	12	(Prefix)-12-(*)-CS12					
	18	(Prefix)-18-(*)-CS12					
	24	(Prefix)-24-(*)-CS12					
	30	(Prefix)-30-(*)-CS12					
	36	(Prefix)-36-(*)-CS12					
	42	(Prefix)-42-(*)-CS12					
24	6	(Prefix)-06-(*)-CS24	27.625	28.188	29.188	30.188	31.188
	9	(Prefix)-09-(*)-CS24					
	12	(Prefix)-12-(*)-CS24					
	18	(Prefix)-18-(*)-CS24					
	24	(Prefix)-24-(*)-CS24					
	30	(Prefix)-30-(*)-CS24					
	36	(Prefix)-36-(*)-CS24					
	42	(Prefix)-42-(*)-CS24					
36	6	(Prefix)-06-(*)-CS36	39.625	40.188	41.188	42.188	43.188
	9	(Prefix)-09-(*)-CS36					
	12	(Prefix)-12-(*)-CS36					
	18	(Prefix)-18-(*)-CS36					
	24	(Prefix)-24-(*)-CS36					
	30	(Prefix)-30-(*)-CS36					
	36	(Prefix)-36-(*)-CS36					
	42	(Prefix)-42-(*)-CS36					
48	6	(Prefix)-06-(*)-CS48	51.625	52.188	53.188	54.188	55.188
	9	(Prefix)-09-(*)-CS48					
	12	(Prefix)-12-(*)-CS48					
	18	(Prefix)-18-(*)-CS48					
	24	(Prefix)-24-(*)-CS48					
	30	(Prefix)-30-(*)-CS48					
	36	(Prefix)-36-(*)-CS48					
	42	(Prefix)-42-(*)-CS48					

(*) Insert bottom style to complete Catalog No.

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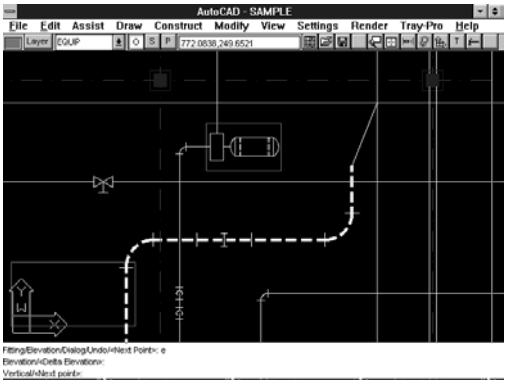
T&B® Cable Tray

Steel Cable Tray – Tray Pro™ Features



Thomas & Betts Tray-Pro™ is an innovative, easy to use design package for AutoCad 12, AutoCad 13 and AutoCad Release (Windows or DOS).

Now available to download from the internet:

www.members.home.net/cte/

Features

- Single line, 2D and 3D drawing capability.
- Automatic bill of material generator with multiple database file merging capability.
- Automatic specification generator.
- Visual interference checking through 3D.
- Open architecture layer control.
- Full editing capability.
- Automatic cable tray annotation.
- Automatic tray support drawing capability.
- Design load calculator.
- On-line NEC, NEMA and CSA standards help/assistance.
- Full detail and accessory library.
- Complete and easy to use dialog box interface.
- Metric capability.

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T&B® Cable Tray

Steel Cable Tray – Accessories, Covers

Tray Covers

Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Outside cable tray runs should be covered with a Peaked Flanged cover to protect cable from the elements and excess build up of snow and ice.

Solid Covers:

These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have ½" flange.

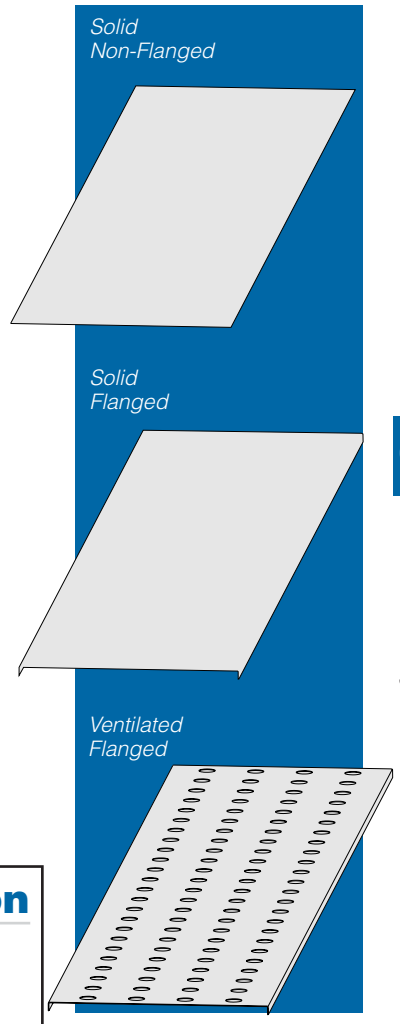
Ventilated Flanged Covers:

This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Peaked Flanged Covers:

Peaked covers offer mechanical protection plus prevents accumulation of liquid on the cover. Peaked covers have 15° rise at the peak. Covers 12" wide and less available in 72" and 144" length. Covers greater than 12" wide available in 72" length only. Fittings covers are not available in Peaked Flange.

Notes: *Cover mounting hardware must be ordered separately.*
Material thickness PG = 19GA, HG = 18GA



Straight Cover Catalog Number Selection

(PGW-12)-SNC-72

Prefix

Material	Width	Type	Length*
PGW • Pre-Galvanized Accessory HGW • Hot Dip Galvanized Accessory	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover PFC • Peaked Flanged Cover	72 • (72") 144 • (12ft)

***Hot Dipped Covers available in 6' only**

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T&B® Cable Tray

Steel Cable Tray – Accessories, Covers

Fitting Cover Catalog Number Selection

(PGW-12)-SNC-HB 90-24

Prefix	Material	Width	Cover Type	Fitting Type	Degree*	Radius
(PGW-12)	PGW Pre-Galvanized HGW Hot Dip Galvanized	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VI • Vertical Inside Bend VTU • Vertical Tee Down HYR • Horizontal Wye Right HYL • Horizontal Wye Left	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36") 48 • (48")

*Required for HB & VI only

(PGW-18-12)-SNC-RT-12

Prefix	Material	Width 1	Width 2	Cover Type	Fitting Type	Radius*
(PGW-18-12)	PGW Pre-Galvanized HGW Hot Dip Galvanized	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	RT • Horizontal Reduce Tee ET • Horizontal Expand Tee EX • Horizontal Expand Tee & Reduce Cross HSR • Horizontal Straight Reducer HLR • Horizontal Left Reducer HRR • Horizontal Right Reducer	12 • (12") 24 • (24") 36 • (36") 48 • (48")

*Radius not required for HSR, HLR, HRR

(PGW-4-12)-SNC-VO-90-24

Prefix	Material	Siderail Height	Width 2	Cover Type	Fitting Type	Degree*	Radius
(PGW-4-12)	PGW Pre-Galvanized HGW Hot Dip Galvanized	3⅞ • (3⅞") 4 • (4") 5 • (5") 6 • (6") 7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	VO • Vertical Outside Bend VTD • Vertical Tee Down	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36") 48 • (48")

*Required for VO only

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T&B® Cable Tray

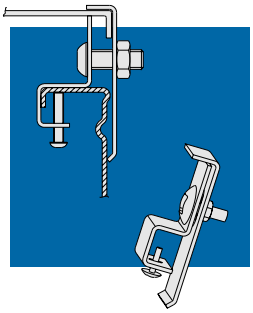
Steel Cable Tray – Accessories, Covers

MATERIAL	COVER OFFSET	CATALOG NO.
PGW Pre-Galvanized	1" 2" 3"	PGW*+RCC

+Cover offset

Raised Cover Clamp

Designed to raise cover above tray for added ventilation.

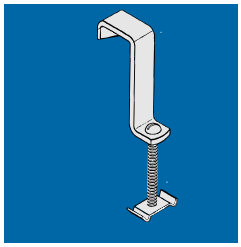


MATERIAL PREFIX	SIDERAIL HEIGHT	CATALOG NO.
PGW Pre-Galvanized HGW Hot Dip Galvanized	3½" 4" 5" 6" 7"	(Prefix)-3½-HDC (Prefix)-4-HDC (Prefix)-5-HDC (Prefix)-6-HDC (Prefix)-7-HDC

Combination Hold Down Cover Clamp

Designed to secure flat and flanged covers with hold down feature.

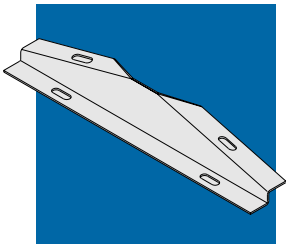
Hardware not included.



MATERIAL	WIDTH	CATALOG NO.
PGW Pre-Galvanized HGW Hot Dipped Galvanized	06" 09" 12" 18" 24" 30" 36" 42"	PGW*PEC HGW*PEC *Width

Peaked End Cap

Used to transition between peaked covers and straight covers.



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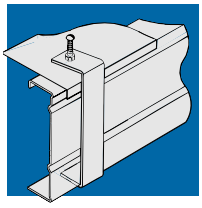
T&B® Cable Tray

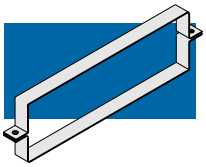
Steel Cable Tray – Accessories, Covers



Standard Cover Clamp

Rigid indoor cover clamp for flat and flanged covers.

MATERIAL PREFIX	SIDERAIL HEIGHT	CATALOG NO.
PGW Pre-Galvanized	3½''	PGW-3½-SCC
	4"	PGW-4-SCC
	5"	PGW-5-SCC
	6"	PGW-6-SCC
	7"	PGW-7-SCC

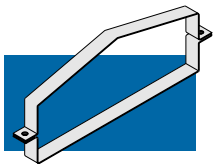


Heavy Duty Cover Clamp

Wrap around design offers added protection for rugged applications and outdoor conditions.

Hardware included.

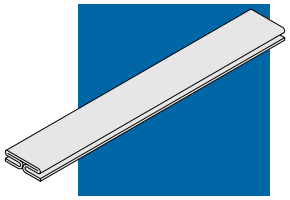
MATERIAL PREFIX	SIDERAIL HEIGHT	HEAVY DUTY CATALOG NO.	PEAKED COVER CATALOG NO.
PGW	3½"	(Prefix)-3½-(*)-HCC	(Prefix)-3½-(*)-HPC
Pre-Galvanized	4"	(Prefix)-4-(*)-HCC	(Prefix)-4-(*)-HPC
	5"	(Prefix)-5-(*)-HCC	(Prefix)-5-(*)-HPC
HGW Hot Dip	6"	(Prefix)-6-(*)-HCC	(Prefix)-6-(*)-HPC
Galvanized	7"	(Prefix)-7-(*)-HCC	(Prefix)-7-(*)-HPC



Heavy Peaked Cover Clamp

Wrap around design formed to fit peaked cover for outdoor applications.

Hardware included.



Cover Joint Strip

Strip used for joining covers.

MATERIAL PREFIX	CATALOG NO.
PGW Pre-Galvanized	PGW-*-SCS

**** Width of Tray***

Quantity of Standard Cover Clamps Required

Straight section (6 ft.)	4 pcs.
Straight section (12 ft.)	6 pcs.
Horizontal and Vertical Bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.

Note: When using the Heavy Duty Cover Clamp, only half the quantity of pieces are required.

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T&B® Cable Tray

Steel Cable Tray – Accessories, Splice Plates

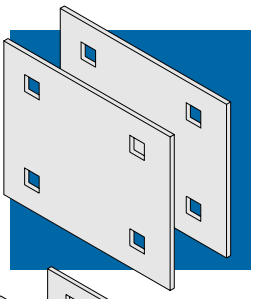
MATERIAL PREFIX	HEIGHT	CATALOG NO.
PGW Pre-Galvanized	3½"	(Prefix)-3½-SSP
	4"	(Prefix)-4-SSP
HGW Hot Dip Galvanized	5"	(Prefix)-5-SSP
	6"	(Prefix)-6-SSP
	7"	(Prefix)-7-SSP

Splice Plate

Easy alignment and installation.

Packaged in pairs with zinc plated hardware.

Provided as standard with each item.

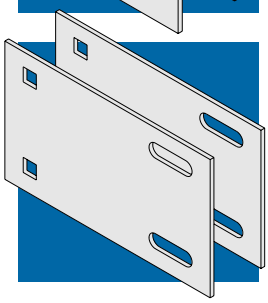


MATERIAL PREFIX	HEIGHT	CATALOG NO.
PGW Pre-Galvanized	3½"	(Prefix)-3½-ESP
	4"	(Prefix)-4-ESP
HGW Hot Dip Galvanized	5"	(Prefix)-5-ESP
	6"	(Prefix)-6-ESP
	7"	(Prefix)-7-ESP

Expansion Splice Plate

Allows for a 1" expansion or contraction of tray system. See page G30 for more information.

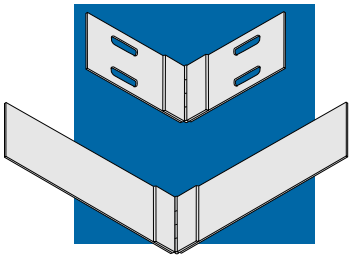
Packaged in pairs with hardware.



MATERIAL PREFIX	HEIGHT	CATALOG NO.
PGW Pre-Galvanized	3½"	(Prefix)-3½-HSP
	4"	(Prefix)-4-HSP
HGW Hot Dip Galvanized	5"	(Prefix)-5-HSP
	6"	(Prefix)-6-HSP
	7"	(Prefix)-7-HSP

Horizontal Adjustable Plate

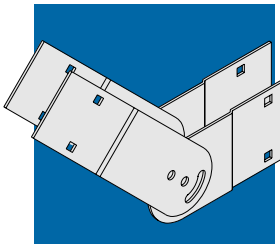
Adjustable Hinge Plates provide maximum horizontal installation flexibility. Packaged in pairs with hardware.



MATERIAL PREFIX	HEIGHT	CATALOG NO.
PGW Pre-Galvanized	3½"	(Prefix)-3½-VSP
	4"	(Prefix)-4-VSP
HGW Hot Dip Galvanized	5"	(Prefix)-5-VSP
	6"	(Prefix)-6-VSP
	7"	(Prefix)-7-VSP

Vertical Adjustable Plate

Hinged Vertical Plates provide maximum flexibility for changes in elevation. Packaged in pairs with hardware.



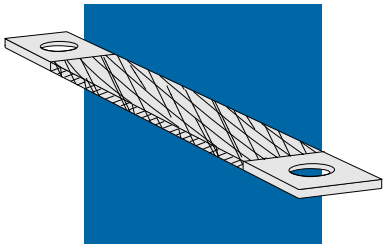
MATERIAL	RATING	CATALOG NO.
Copper	600A	CAW 600 BJ
Copper	1200A	CAW 1200 BJ
Copper	2000A	CAW 2000 BJ

Bonding Jumper

Use Bonding Jumpers at expansion splice plates if cable tray is used as a grounding conductor.

See NEC 318-7.

2000 Amp shown.



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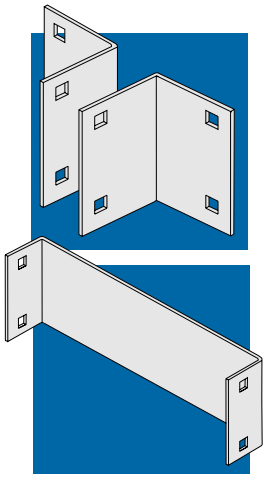
T&B® Cable Tray

Steel Cable Tray – Accessories, Splice Plates



Box To Tray Plates

Designed to secure tray to electrical panels or boxes, walls or end supports.

Packaged in pairs with hardware.

MATERIAL PREFIX	HEIGHT	CATALOG NO.
PGW Pre-Galvanized	3½"	(Prefix)-3½-BSP
	4"	(Prefix)-4-BSP
HGW Hot Dip Galvanized	5"	(Prefix)-5-BSP
	6"	(Prefix)-6-BSP
	7"	(Prefix)-7-BSP

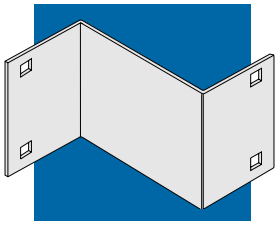
Closure End Plate

Provides closure for any tray end.

Hardware included.

MATERIAL PREFIX	HEIGHT	CATALOG NO.
PGW Pre-Galvanized	3½"	(Prefix)-3½-(*)-CEP
	4"	(Prefix)-4-(*)-CEP
HGW Hot Dip Galvanized	5"	(Prefix)-5-(*)-CEP
	6"	(Prefix)-6-(*)-CEP
	7"	(Prefix)-7-(*)-CEP

** Tray Width*



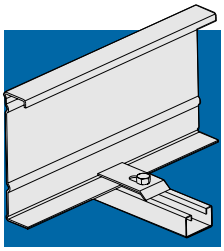
Reducing Splice Plate

Used in pairs to provide a straight reduction or used with a Standard Splice Plate for an offset reduction.

One per package with hardware.

MATERIAL PREFIX	HEIGHT	CATALOG NO.
PGW Pre-Galvanized	3½"	(Prefix)-3½-(*)-RSP
	4"	(Prefix)-4-(*)-RSP
HGW Hot Dip Galvanized	5"	(Prefix)-5-(*)-RSP
	6"	(Prefix)-6-(*)-RSP
	7"	(Prefix)-7-(*)-RSP

**Note: For Offset Reduction: Insert width to be reduced.*
For Straight Reduction: Insert ½ width to be reduced (2 required)



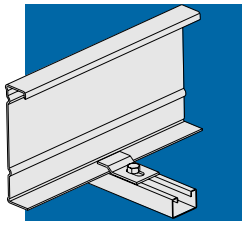
Standard Hold Down Clamp

Designed for most indoor installation.

Easy to use and install.

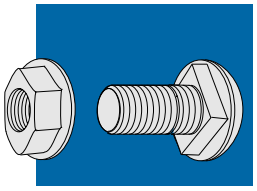
Hardware not included.

MATERIAL PREFIX	CATALOG NO.
PGW Pre-Galvanized	(Prefix)-SHC
HGW Hot Dip Galvanized	



Combination Hold Down / Expansion Clamp

MATERIAL PREFIX	CATALOG NO.
PGW Pre-Galvanized	(Prefix)-HEC
HGW Hot Dip Galvanized	



Steel Tray Hardware

DESCRIPTION	MATERIAL	CATALOG NO.
⅜" Carriage Bolt	Zinc Plated Steel	PGW-⅜-CB
⅜" Hex Nut	Zinc Plated Steel	PGW-⅜-HN
⅜" Carriage Bolt	316 Stainless	S6W-⅜-CB
⅜" Hex Nut	316 Stainless	S6W-⅜-HN
316 Stainless Hardware Kit	316 Stainless	S6W-⅜-HWK*
#10 x ½" Self Drilling Self Tapping Screw	Zinc Plated	PGW-10-SCR

** Contains 8 nuts, 8 bolts, 8 lock washers*

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T&B® Cable Tray

Steel Cable Tray – Accessories, Cable Protection

Cable Protection

Drop-outs provide protection for cables during installation and after. The smooth radiused transition provides excellent protection of insulation and increases the bending radius of larger cables, reducing possible cable elongation.

MATERIAL PREFIX	CATALOG NO.
PGW Pre-Galvanized	(Prefix)-(*)-DO
HGW Hot Dip Galvanized	

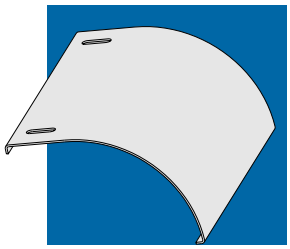
** Tray Width*

Drop-Out

Designed to provide a smooth radiused surface at any position on the tray or trough bottom.

Drop-Outs are easily attached using hardware provided.

Standard Radius = 4".



MATERIAL PREFIX	CATALOG NO.
PGW Pre-Galvanized	(Prefix)-(*)-(**)-WPS
HGW Hot Dip Galvanized	

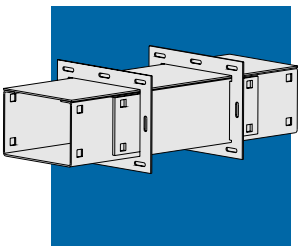
** Siderail Height*
*** Width*

Wall Penetration Sleeve

Designed to pass through walls and fire walls.

Hardware included.

Note: Not Fire Rated. Fire Stop not included.



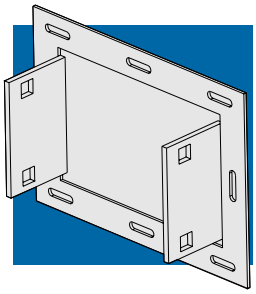
MATERIAL PREFIX	CATALOG NO.
PGW Pre-Galvanized	(Prefix)-(*)-(**)-FBP
HGW Hot Dip Galvanized	

** Siderail Height*
*** Width*

Frame Type Tray to Box Plate

Designed to secure tray to electrical enclosures and panels.

Hardware not included.



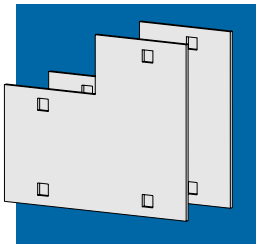
MATERIAL PREFIX	CATALOG NO.
PGW Pre-Galvanized	(Prefix)-(*)-(**)-SDS
HGW Hot Dip Galvanized	

** Siderail Height 1*
*** Siderail Height 2*

Step Down Splice Plate

Connects siderails of different heights.

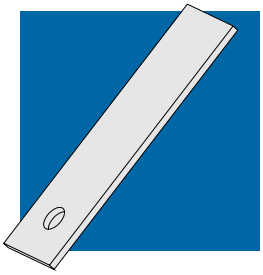
Hardware included.



MATERIAL	CATALOG NO.
Natural Nylon	ALW-NSP

Nylon Expansion Pad

Allows for thermal expansion and contraction of cable trays over supports.



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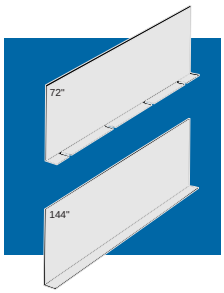
T&B® Cable Tray

Steel Cable Tray – Accessories, Barrier Strips

Barrier Strips

Barrier strips are used to separate cables within a tray. They are fastened into the tray with the Barrier Strip Clamp.

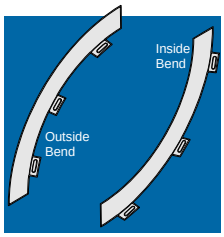


Barrier Strips

Barrier Strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware or Barrier Strip Clamps (sold separately). 72" Barriers are flexible for use with horizontal fittings.

MATERIAL PREFIX	HEIGHT	CATALOG NO.
PGW Pre-Galvanized	3½"	(Prefix)-3½-SB-72 & 144
	4"	(Prefix)-4-SB-72 & 144
HGW Hot Dip Galvanized	5"	(Prefix)-5-SB-72 & 144
	6"	(Prefix)-6-SB-72 & 144
	7"	(Prefix)-7-SB-72 & 144

Note: Hot dipped available in 72" only
72" barriers provided with 3 PGW 10 SCR
144" barriers provided with 6 PGW 10 SCR

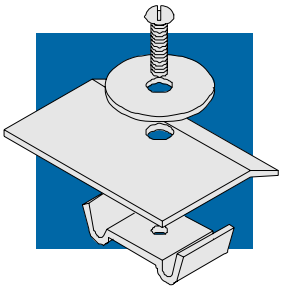


Inside/Outside Vertical Bend Barriers

Preformed to fit all standard steel vertical bends.
Provided with hardware.

MATERIAL PREFIX	INSIDE BEND CATALOG NO.	OUTSIDE BEND CATALOG NO.	SIDERAIL HEIGHT
PGW Pre-Galvanized	(Prefix)-3½-VIB-(*)-(+)	(Prefix)-3½-VOB-(*)-(+)	3½
	(Prefix)-4-VIB-(*)-(+)	(Prefix)-4-VOB-(*)-(+)	4
HGW Hot Dip Galvanized	(Prefix)-5-VIB-(*)-(+)	(Prefix)-5-VOB-(*)-(+)	5
	(Prefix)-6-VIB-(*)-(+)	(Prefix)-6-VOB-(*)-(+)	6
	(Prefix)-7-VIB-(*)-(+)	(Prefix)-7-VOB-(*)-(+)	7

(*) Insert Bend Degree (+) Insert Bend Radius
Note: 3½" is only available in 12" and 24" radius.

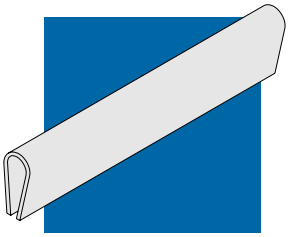


Barrier Strip Clamp

Barrier Strip Clamps mount Barrier Strips to Ladder rungs and Ventilated Trough bottoms.

Complete mounting hardware supplied.

MATERIAL PREFIX	CATALOG NO.
PGW Pre-Galvanized	(Prefix)-BSC



Barrier Strip Splice

Alignment splice for joining connecting Barrier Strips.

MATERIAL PREFIX	CATALOG NO.
Plastic	ALW-BSS

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T&B® Cable Tray

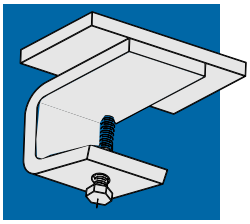
Steel Cable Tray – Accessories, Barrier Strips

MATERIAL	CATALOG NO.
Zinc Plated Steel	PGW-CTG
Steel Hot Dip	HGW-CTG

Cable Tray Guide

Expansion guide for single or double runs of cable tray.

No need to field drill channel or I-beam.

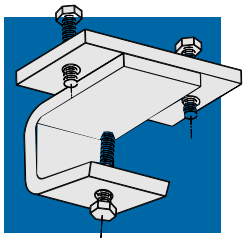


MATERIAL	CATALOG NO.
Zinc Plated Steel	PGW-CTC
Steel Hot Dip	HGW-CTC

Cable Tray Clamp

Clamps for single run of cable tray.

No need to field drill channel or I-beam.



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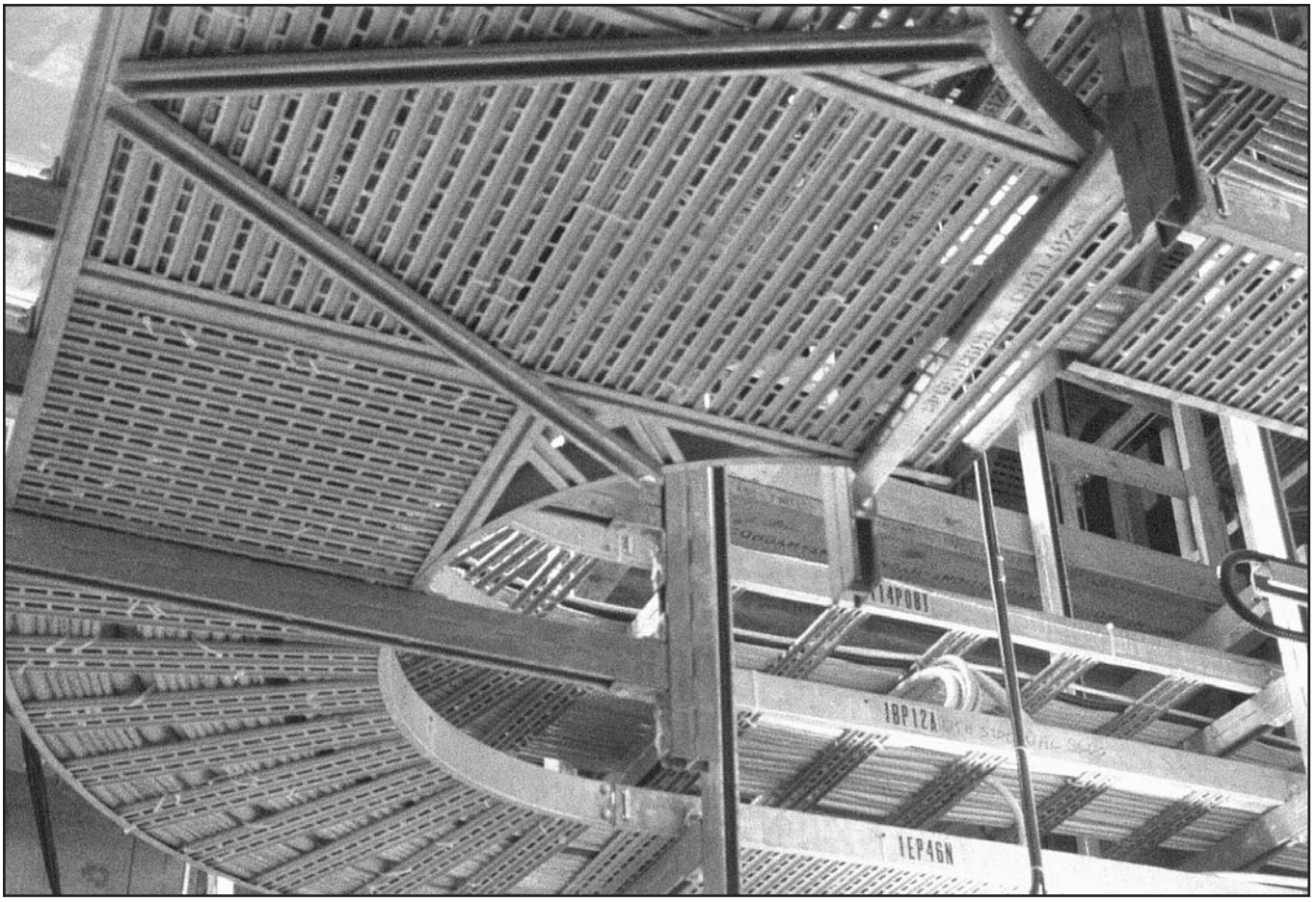
T&B® Cable Tray

Stainless Steel Cable Tray – T&B Cable Tray System



Features

- Available in Type 304 and 316 stainless steel material.
- Exclusive Ty-Rap® cable tie slots on one inch (1") centers.
- Extra wide rung design.
- Four bolt connection.
- Versatile strut shaped rung.
- Complete line of fittings.
- Complete line of accessories.

APPLICATIONS

COMMERCIAL

Schools
Hospitals
Office Buildings
Airports
Casinos
Stadiums

INDUSTRIAL

Petro-Chemical Plants
Automotive Plants
Paper Plants
Food Processing
Power Plants
Refineries
Manufacturing
Mining

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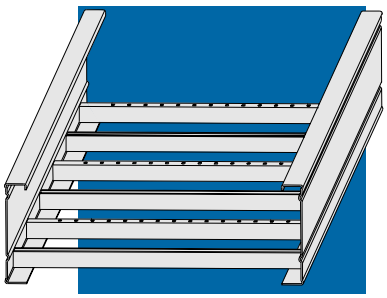
T&B® Cable Tray

Stainless Steel Cable Tray – Index

Ladder

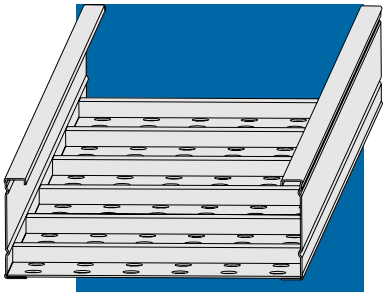
Formed siderails are mig welded to 1⅝" wide rungs to provide maximum rigidity and strength. Rung design includes exclusive Ty-Rap® cable tie slots on 1" centers.



Ladder

Ventilated Trough

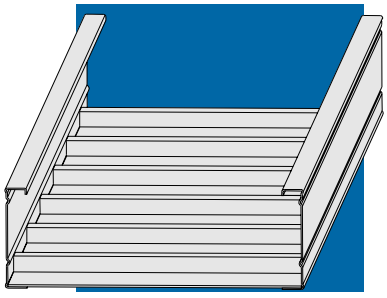
Ventilated sheet welded to stainless steel siderails below rungs. This tray design offers maximum cable support while allowing for cable ventilation and openings for cable drop outs.



Ventilated Trough

Solid Trough

Solid sheet welded to stainless steel siderails below rungs. This design offers added cable protection.



Solid Trough

Index

3½" Straight Sections G132
4" Straight Sections G134
5" Straight Sections G136
6" Straight Sections G138
7" Straight Sections G140
Horizontal Bends 90°, 60° G142
Horizontal Bends 45°, 30° G143
Horizontal Tee, Cross G144
Reducers G145
Horizontal Reducing Tee G146
Horizontal Expanding Tee G147
Horizontal Expanding / Reducing Cross G148
Horizontal Wye G149
Vertical Bend 90° G150
Vertical Bend 60° G151
Vertical Bend 45° G152
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Cable Support Fitting G155
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T&B® Cable Tray

Stainless Steel Cable Tray – Straight Sections Numbering System

How to create part numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page G11.

Methods:

1. Select the material best suited to your environment. Refer to technical section page G18.
2. Determine the series tray using the NEMA Load/Span Designations page G12, and Sizing Cable Tray page G31.
3. Select nominal depth and width of tray based on Cable Loading. See Sizing Cable Tray page G31.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in inches.

Example:

Straight Section Number Selection

(S42-6)-24-L09-144

Prefix	Material	Series	Siderail Depth	Width	Bottom Type	Length
(S42-6)	S4 • 304 Stainless Steel S6 • 316 Stainless Steel	1 • Series 1 2 • Series 2	*3½ • (3½") 4 • (4") 5 • (5") 6 • (6") **7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing L18 • 18" rung spacing V • Ventilated Trough S • Solid Trough	144 • (12ft) 288 • (24ft)

* 3½" tray available in series 1 and 12 ft. lengths only
** 7" tray available in series 2 only
*** Series 3 available in 5" and 6" heights only.

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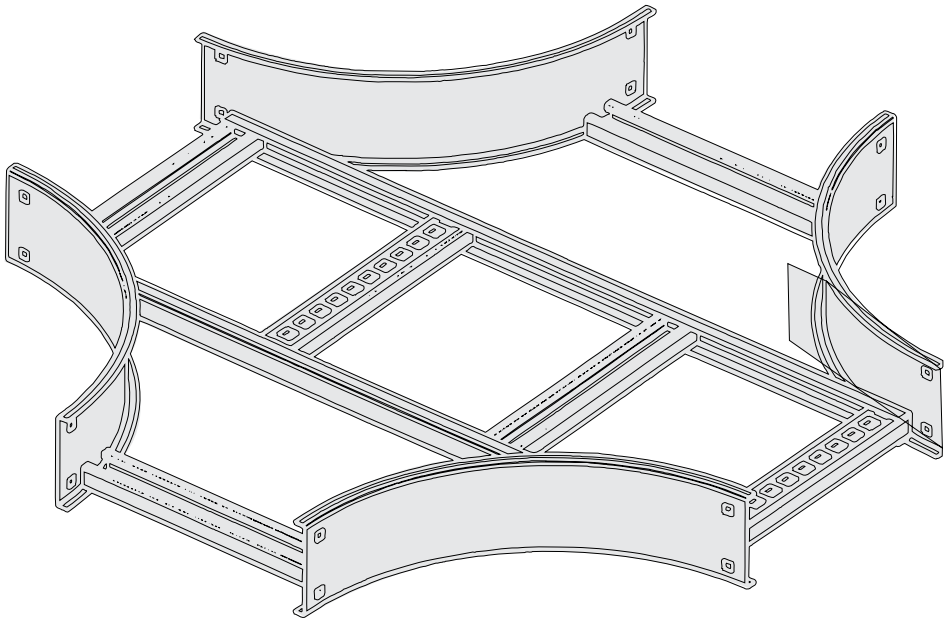
T&B® Cable Tray

Stainless Steel Cable Tray – Fittings Numbering System



Example:

Fittings Number Selection

(S4F-6)-24-L-VO 60-12

Prefix

Fitting Material	Siderail Depth	Width	Bottom Type	Fitting Type	Angle**	Radius†
S4 • 304 Stainless Steel	3½ • (3½")	06 • (6")	L • (9" rung spacing)	HB • Horizontal Bend	30 • (30°)	12 • (12")
S6 • 316 Stainless Steel	4 • (4")	09 • (9")	V • Ventilated	HT • Horizontal Tee	45 • (45°)	24 • (24")
	5 • (5")	12 • (12")	S • Solid	HX • Horizontal Cross	60 • (60°)	*36 • (36")
	6 • (6")	18 • (18")		VI • Vertical Inside Bend	90 • (90°)	*48 • (48")
	7 • (7")	24 • (24")		VO • Vertical Outside Bend		
		30 • (30")		VTD • Vertical Tee Down		
		36 • (36")		VTU • Vertical Tee Up		
		42 • (42")		HYR • Horizontal Wye Right		
				HYL • Horizontal Wye Left		
				RT • Horizontal Reduce Tee		
				ET • Horizontal Expand Tee		
				EX • Horizontal Expand & Reduce Cross		
				HLR • Horizontal Left Reducer		
				HSR • Horizontal Straight Reducer		
				HRR • Horizontal Right Reducer		
				CS • Cable Support Fitting		

**R36 and R48 not available for 3½" tray*
***Angle required for HB, VI, & VO only*
†Radius not required for HLR, HSR, & HRR

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T&B® Cable Tray

Stainless Steel Cable Tray – 3½" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:

Design: Formed Channel
Nominal Height 3⅝"
Loading Height 2⅝"

Ladder Rung:

Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:

Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:

Design: Solid sheet welded to siderails below rungs for added cable protection.

Accessories: One pair of splice plates comes with ⅜" mounting hardware.

Material: S4-304 Stainless Steel
S6-316 Stainless Steel

Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S41-3½ S61-3½	Load (lbs./ft.)	222	125	80	56	41	31	25	20
	Deflection (in.)	0.222	0.500	0.720	1.056	1.469	1.906	2.420	3.000
	Deflection Factor	0.001	0.004	0.009	0.019	0.036	0.061	0.098	0.150

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.
Continuous spans may reduce deflection by as much as 50%.

Part Numbering System

(S41-3½)-24-L09-144

Material
Series
Depth
Width
Bottom Style
Length

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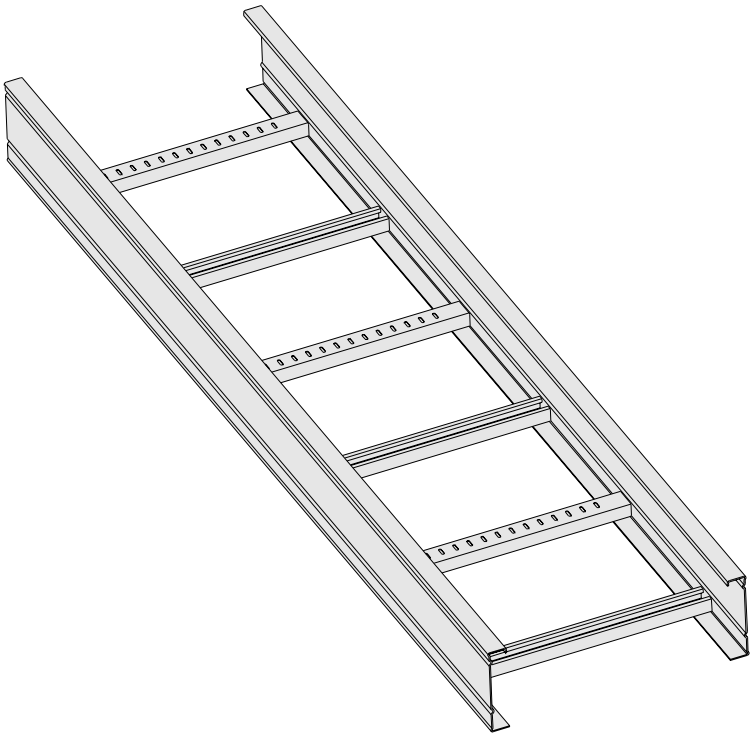
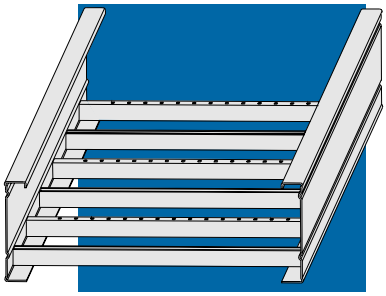
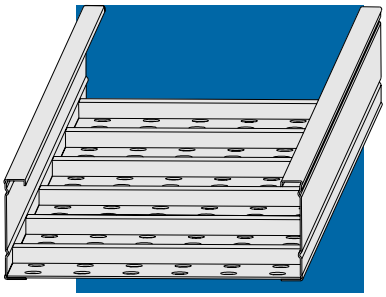
T&B® Cable Tray

Stainless Steel Cable Tray – 3½" Straight Sections – Ladder, Ventilated and Solid Trough

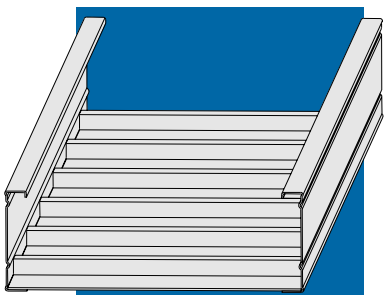




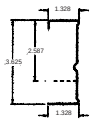
Ladder



Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS
S41-3½ **S61-3½**		Ix = 1.266 in^4 Sx = 0.514 in^3	12A

Selection Guide

Inside Tray Widths:
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Tray Lengths:
144"=144(12ft.)

Bottom Styles:
L– Standard Ladder Rung Spacing– 6"=L06, 9"=L09, 12"=L12, 18"=L18
V– Ventilated / S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G142 - G155.

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T&B® Cable Tray

Stainless Steel Cable Tray – 4" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:

Design: Formed Channel
Nominal Height 4 3/16"
Loading Height 3 3/16"

Ladder Rung:

Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:

Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:

Design: Solid sheet welded to siderails below rungs for added cable protection.

Accessories: One pair of splice plates comes with 3/8" mounting hardware.

Material: S4-304 Stainless Steel
S6-316 Stainless Steel

Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S41-4 S61-4	Load (lbs./ft.)	264	149	95	66	48	37	29	24
	Deflection (in.)	0.264	0.297	0.475	0.726	1.018	1.299	1.643	2.043
	Deflection Factor	0.001	0.002	0.005	0.011	0.021	0.035	0.056	0.086

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S42-4 S62-4	Load (lbs./ft.)	589	331	212	147	108	83	65	53
	Deflection (in.)	0.236	0.331	0.636	1.031	1.406	1.822	2.356	2.915
	Deflection Factor	0.000	0.001	0.003	0.007	0.013	0.022	0.036	0.055

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.

Continuous spans may reduce deflection by as much as 50%.

Part Numbering System

(S42-4)-24-L09-144

Material
Series
Depth
Width
Bottom Style
Length

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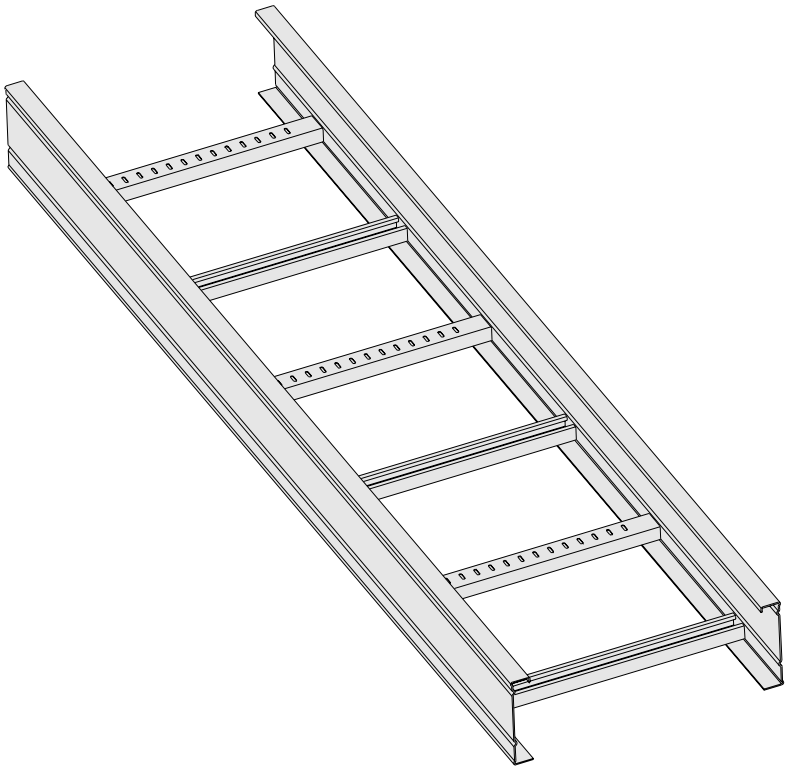
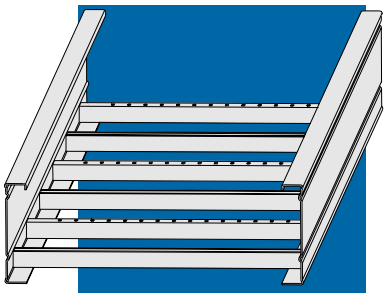
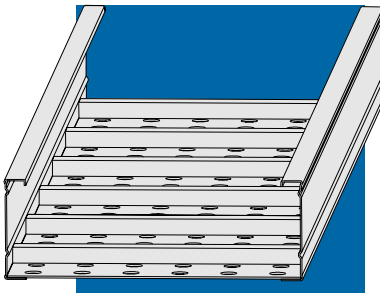
T&B® Cable Tray

Stainless Steel Cable Tray – 4" Straight Sections – Ladder, Ventilated and Solid Trough

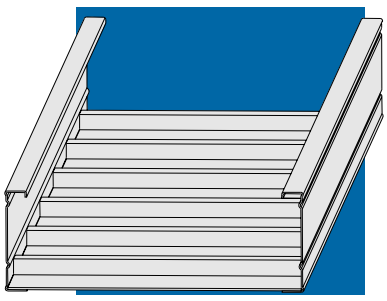




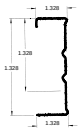
Ladder

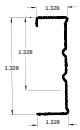


Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS
S41-4 **S61-4**		Ix = 1.974 in^4 Sx = 0.788 in^3	8A, 8B, 8C, 12A

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS
S42-4 **S62-4**		Ix = 2.224 in^4 Sx = 1.076 in^3	8A, 8B, 8C, 12A, 12B, 12C 16A, 16B 20A

Selection Guide

Inside Tray Widths:
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Tray Lengths:
144"=144(12ft.) or 288"=288(24ft.)

Bottom Styles:
L– Standard Ladder Rung Spacing– 6"=L06, 9"=L09, 12"=L12, 18"=L18
V– Ventilated / S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G142 - G155.

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T&B® Cable Tray

Stainless Steel Cable Tray – 5" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:
Design: Formed Channel
Nominal Height 5 3/16"
Loading Height 4 3/16"

Ladder Rung:
Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:
Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:
Design: Solid sheet welded to siderails below rungs for added cable protection.

Accessories: One pair of splice plates comes with 3/8" mounting hardware.

Material: S4-304 Stainless Steel
S6-316 Stainless Steel

Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S41-5 S61-5	Load (lbs./ft.)	288	162	104	72	53	41	32	26
	Deflection (in.)	0.115	0.162	0.311	0.432	0.635	0.810	1.152	1.296
	Deflection Factor	0.0004	0.001	0.003	0.006	0.012	0.020	0.051	0.050

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S42-5 S62-5	Load (lbs./ft.)	505	284	182	126	93	71	56	45
	Deflection (in.)	0.202	0.284	0.545	0.757	1.113	1.420	2.020	2.272
	Deflection Factor	0.0004	0.001	0.003	0.006	0.012	0.020	0.051	0.050

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S43-5 S63-5	Load (lbs./ft.)	1111	625	400	278	204	156	123	100
	Deflection (in.)	0.225	0.400	0.625	0.899	1.224	1.599	2.023	2.498
	Deflection Factor	0.0002	0.001	0.002	0.003	0.006	0.010	0.016	0.025

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.
Continuous spans may reduce deflection by as much as 50%.

Part Numbering System

(S42-5)-24-L09-144

Material
Series
Depth
Width
Bottom Style
Length

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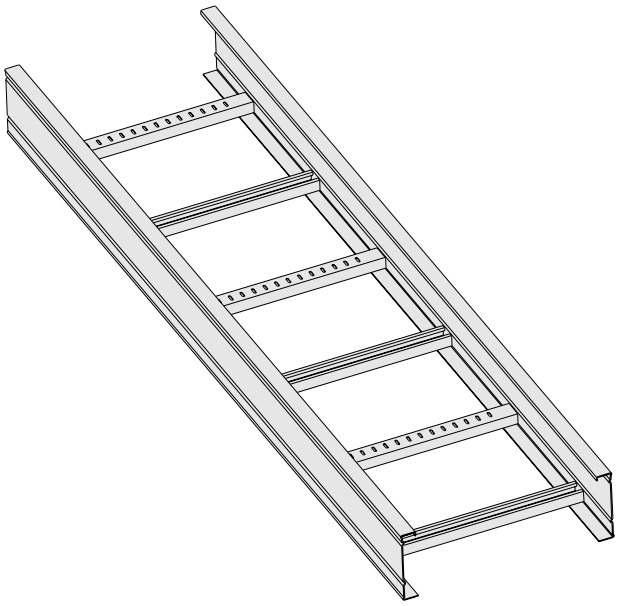
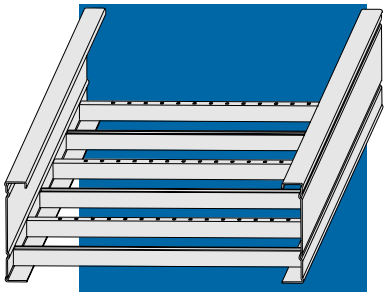
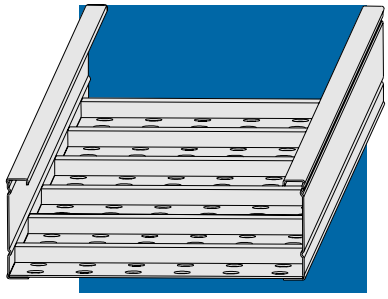
T&B® Cable Tray

Stainless Steel Cable Tray – 5" Straight Sections – Ladder, Ventilated and Solid Trough

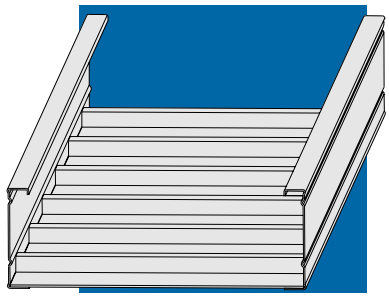




Ladder

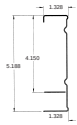


Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS
S41-5 **S61-5**		Ix = 2.303 in⁴ Sx = 0.855 in³	8A, 8B, 8C 12A

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS
S42-5 **S62-5**		Ix = 2.888 in⁴ Sx = 1.074 in³	8A, 8B, 8C 12A, 12B, 12C 16A

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS
S43-5 **S63-5**		Ix = 4.635 in⁴ Sx = 1.732 in³	8A, 8B, 8C 12A, 12B, 12C 16A, 16B, 16C 20A, 20B, 20C

Selection Guide

Inside Tray Widths:
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Tray Lengths:
144"=144(12ft.) or 288"=288(24ft.)

Bottom Styles:
L– Standard Ladder Rung Spacing– 6"=L06, 9"=L09, 12"=L12, 18"=L18
V– Ventilated / S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G142 - G155.

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T&B® Cable Tray

Stainless Steel Cable Tray – 6" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:

Design: Formed Channel
Nominal Height 6 3/16"
Loading Height 5 3/16"

Ladder Rung:

Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:

Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:

Design: Solid sheet welded to siderails below rungs for added cable protection.

Accessories: One pair of splice plates comes with 3/8" mounting hardware.

Material: S4-304 Stainless Steel
S6-316 Stainless Steel

Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S41-6 S61-6	Load (lbs./ft.)	300	169	108	75	55	42	33	27
	Deflection (in.)	0.076	0.136	0.212	0.306	0.416	0.544	0.688	0.850
	Deflection Factor	0.0003	0.001	0.002	0.004	0.008	0.013	0.021	0.031

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S42-6 S62-6	Load (lbs./ft.)	733	413	264	183	135	103	81	66
	Deflection (in.)	0.147	0.206	0.264	0.550	0.673	0.825	1.059	1.320
	Deflection Factor	0.0002	0.0005	0.001	0.003	0.005	0.008	0.013	0.020

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S43-6 S63-6	Load (lbs./ft.)	1289	725	464	322	237	181	143	116
	Deflection (in.)	0.258	0.363	0.464	0.967	1.184	1.450	1.862	2.320
	Deflection Factor	0.0002	0.0005	0.001	0.003	0.005	0.008	0.013	0.020

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.

Continuous spans may reduce deflection by as much as 50%.

Part Numbering System

(S42-6)-24-L09-144

Material
Series
Depth
Width
Bottom Style
Length

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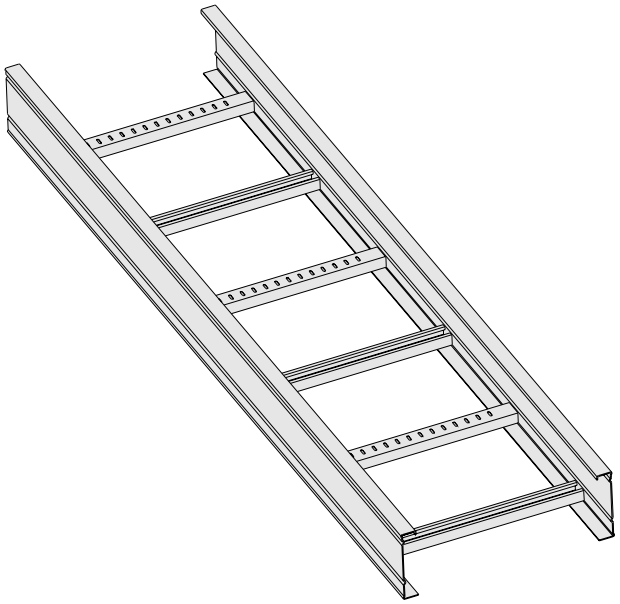
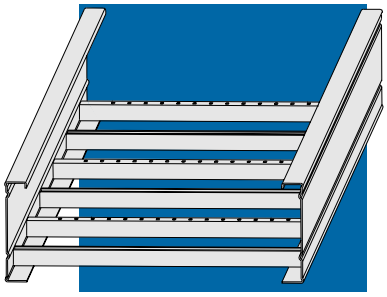
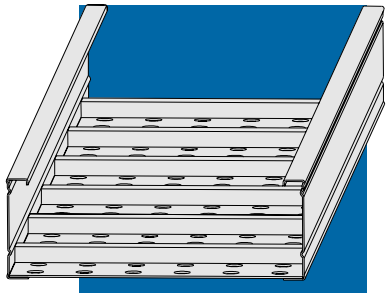
T&B® Cable Tray

Stainless Steel Cable Tray – 6" Straight Sections – Ladder, Ventilated and Solid Trough

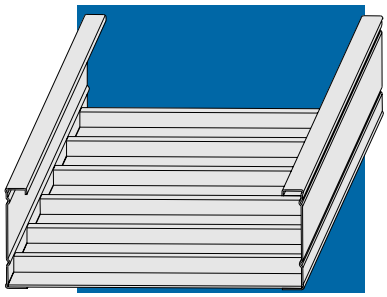




Ladder



Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS
S41-6 **S61-6**		Ix = 3.540 in⁴ Sx = 1.1068 in³	8A, 8B, 8C 12A, 12B

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS
S42-6 **S62-6**		Ix = 5.512 in⁴ Sx = 1.727 in³	8A, 8B, 8C 12A, 12B, 12C 16A, 16B 20A

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS	CSA LOAD RATING
S43-6 **S63-6**		Ix = 7.173 in⁴ Sx = 2.250 in³	8A, 8B, 8C 12A, 12B, 12C 16A, 16B, 16C 20A, 20B, 20C	E

Selection Guide

Inside Tray Widths:
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Tray Lengths:
144"=144(12ft.) or 288"=288(24ft.)

Bottom Styles:
L– Standard Ladder Rung Spacing– 6"=L06, 9"=L09, 12"=L12, 18"=L18
V– Ventilated / S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G142 - G155.

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T&B® Cable Tray

Stainless Steel Cable Tray – 7" Straight Sections – Ladder, Ventilated and Solid Trough

Siderails:

Design: Formed Channel
Nominal Height 7 3/16"
Loading Height 6 3/16"

Ladder Rung:

Design: Rounded corners with continuous slot.
Ty-Rap® cable tie slots on 1" centers.
Reverse position of every other rung for bottom or top mounting of cable ties.

Ventilated Trough:

Design: Ventilated sheet welded to siderails below rungs for maximum ventilation and support.

Solid Trough:

Design: Solid sheet welded to siderails below rungs for added cable protection.

Accessories: One pair of splice plates comes with 3/8" mounting hardware.

Material: S4-304 Stainless Steel
S6-316 Stainless Steel

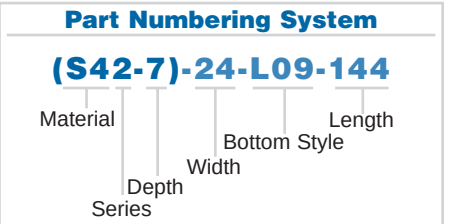
Comply with: NEMA, NEC, UL

Load Ratings: 1.5 Safety factor (NEMA). All tray sections will support an additional 200lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published NEMA load class.

SERIES		SUPPORT SPAN (FEET) 6	8	10	12	14	16	18	20
S42-7 S62-7	Load (lbs./ft.)	556	313	200	139	102	78	62	50
	Deflection (in.)	0.064	0.113	0.177	0.254	0.346	0.452	0.572	0.706
	Deflection Factor	0.0001	0.0004	0.001	0.002	0.003	0.006	0.009	0.014

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint.
Continuous spans may reduce deflection by as much as 50%.

Part Numbering System



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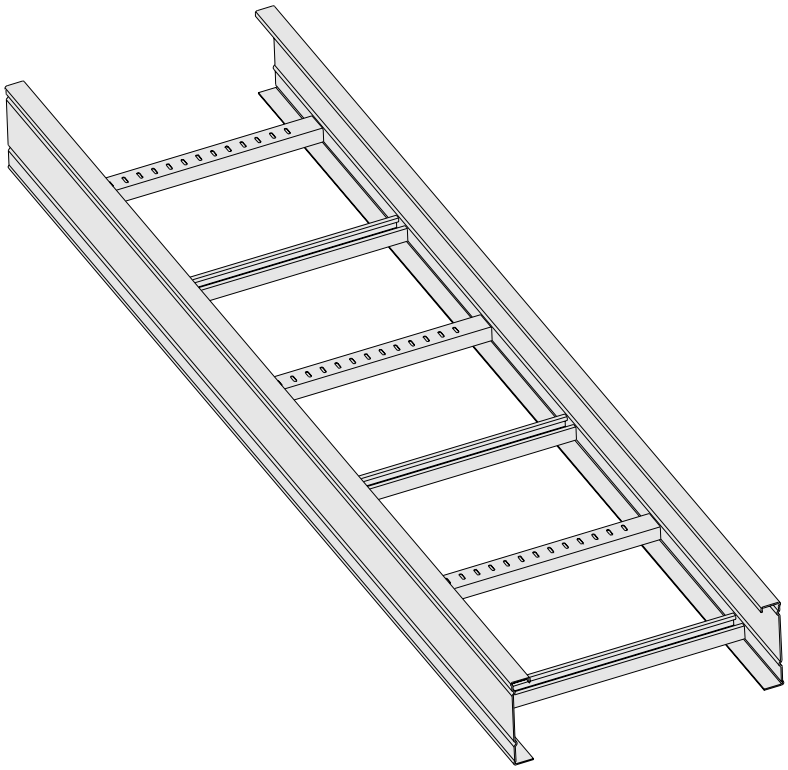
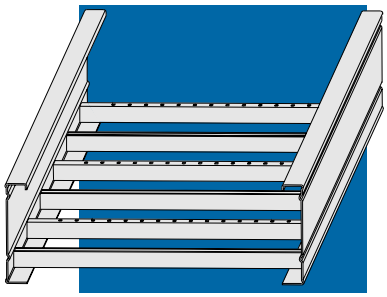
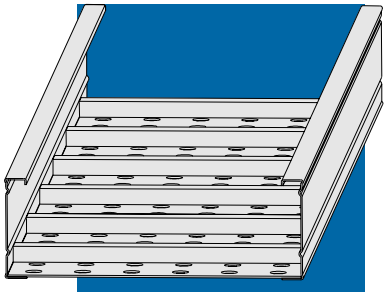
T&B® Cable Tray

Stainless Steel Cable Tray – 7" Straight Sections – Ladder, Ventilated and Solid Trough

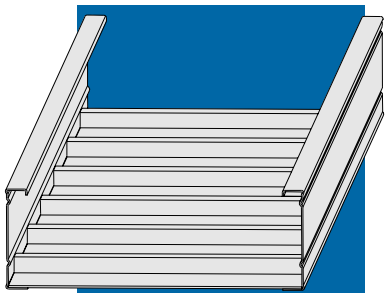




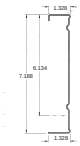
Ladder



Ventilated Trough



Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS
S42-7 **S62-7**		Ix = 7.992 in^4 Sx = 2.163 in^3	8A, 8B, 8C 12A, 12B, 12C 16A, 16B 20A

Selection Guide

Inside Tray Widths:
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Tray Lengths:
144"=144(12ft.) or 288"=288(24ft.)

Bottom Styles:
L– Standard Ladder Rung Spacing– 6"=L06, 9"=L09, 12"=L12, 18"=L18
V– Ventilated / S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings see pages G142 - G155.

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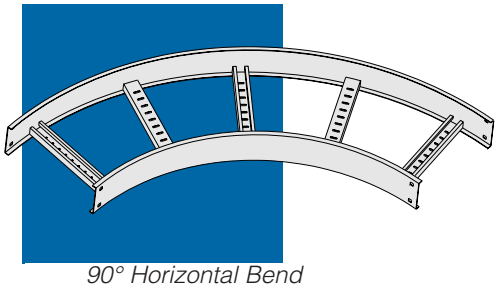
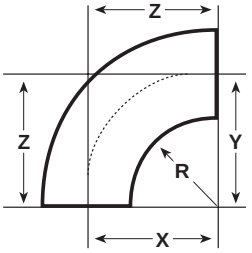
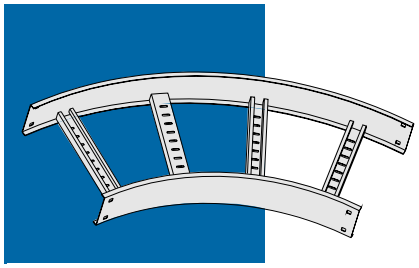
T&B® Cable Tray

Stainless Steel Cable Tray – Horizontal Bends 90° / 60°

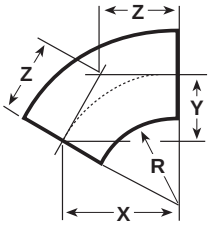


90° Horizontal Bend





60° Horizontal Bend



Part Numbering System

(S4F-4)-24-L-HB60-12

- (S4F-4): Fitting Material
- 24: Width
- L: Bottom Style
- HB60: Fitting Type
- 12: Radius

Siderail Depth: (S4F-4)

Angle: HB60

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

90° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.*	DIMENSIONS X	Y	Z
12	6	(Prefix)-06-(*)HB90-12	15	15	15
	9	(Prefix)-09-(*)HB90-12	16½	16½	16½
	12	(Prefix)-12-(*)HB90-12	18	18	18
	18	(Prefix)-18-(*)HB90-12	21	21	21
	24	(Prefix)-24-(*)HB90-12	24	24	24
	30	(Prefix)-30-(*)HB90-12	27	27	27
	36	(Prefix)-36-(*)HB90-12	30	30	30
	42	(Prefix)-42-(*)HB90-12	33	33	33
24	6	(Prefix)-06-(*)HB90-24	27	27	27
	9	(Prefix)-09-(*)HB90-24	28½	28½	28½
	12	(Prefix)-12-(*)HB90-24	30	30	30
	18	(Prefix)-18-(*)HB90-24	33	33	33
	24	(Prefix)-24-(*)HB90-24	36	36	36
	30	(Prefix)-30-(*)HB90-24	39	39	39
	36	(Prefix)-36-(*)HB90-24	42	42	42
	42	(Prefix)-42-(*)HB90-24	45	45	45
36	6	(Prefix)-06-(*)HB90-36	39	39	39
	9	(Prefix)-09-(*)HB90-36	40½	40½	40½
	12	(Prefix)-12-(*)HB90-36	42	42	42
	18	(Prefix)-18-(*)HB90-36	45	45	45
	24	(Prefix)-24-(*)HB90-36	48	48	48
	30	(Prefix)-30-(*)HB90-36	51	51	51
	36	(Prefix)-36-(*)HB90-36	54	54	54
	42	(Prefix)-42-(*)HB90-36	57	57	57
48	6	(Prefix)-06-(*)HB90-48	51	51	51
	9	(Prefix)-09-(*)HB90-48	52½	52½	52½
	12	(Prefix)-12-(*)HB90-48	54	54	54
	18	(Prefix)-18-(*)HB90-48	57	57	57
	24	(Prefix)-24-(*)HB90-48	60	60	60
	30	(Prefix)-30-(*)HB90-48	63	63	63
	36	(Prefix)-36-(*)HB90-48	66	66	66
	42	(Prefix)-42-(*)HB90-48	69	69	69

(*) Insert bottom style to complete Catalog No.

60° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.*	DIMENSIONS X	Y	Z
12	6	(Prefix)-06-(*)HB60-12	13	9	8 1/16
	9	(Prefix)-09-(*)HB60-12	14 5/16	10½	9½
	12	(Prefix)-12-(*)HB60-12	15 5/16	12	10 3/8
	18	(Prefix)-18-(*)HB60-12	18 3/16	15	12 1/8
	24	(Prefix)-24-(*)HB60-12	20 13/16	18	13¾
	30	(Prefix)-30-(*)HB60-12	23 3/8	21	15 5/16
	36	(Prefix)-36-(*)HB60-12	26	24	17 5/16
	42	(Prefix)-42-(*)HB60-12	28 9/16	27	19 1/16
24	6	(Prefix)-06-(*)HB60-24	23 3/8	15	15 5/16
	9	(Prefix)-09-(*)HB60-24	24 1/16	16½	16 7/16
	12	(Prefix)-12-(*)HB60-24	26	18	17 5/16
	18	(Prefix)-18-(*)HB60-24	28 9/16	21	19 1/16
	24	(Prefix)-24-(*)HB60-24	31 3/16	24	20 13/16
	30	(Prefix)-30-(*)HB60-24	33¾	27	22½
	36	(Prefix)-36-(*)HB60-24	36 3/8	30	24¼
	42	(Prefix)-42-(*)HB60-24	39	33	26
36	6	(Prefix)-06-(*)HB60-36	33¾	21	22½
	9	(Prefix)-09-(*)HB60-36	35 1/16	22½	23 3/8
	12	(Prefix)-12-(*)HB60-36	36 3/8	24	24¼
	18	(Prefix)-18-(*)HB60-36	39	27	26
	24	(Prefix)-24-(*)HB60-36	41 9/16	30	27 1/16
	30	(Prefix)-30-(*)HB60-36	44 3/16	33	29 7/16
	36	(Prefix)-36-(*)HB60-36	46¾	36	31 3/16
	42	(Prefix)-42-(*)HB60-36	49 3/8	39	32 15/16
48	6	(Prefix)-06-(*)HB60-48	44 3/16	27	29 7/16
	9	(Prefix)-09-(*)HB60-48	45 7/16	28½	30 5/16
	12	(Prefix)-12-(*)HB60-48	46¾	30	31 3/16
	18	(Prefix)-18-(*)HB60-48	49 3/8	33	32 15/16
	24	(Prefix)-24-(*)HB60-48	51 15/16	36	34¾
	30	(Prefix)-30-(*)HB60-48	54 9/16	39	36 3/8
	36	(Prefix)-36-(*)HB60-48	57 3/16	42	38 1/8
	42	(Prefix)-42-(*)HB60-48	59¾	45	39 13/16

Includes 1 pair of splice plates with hardware.

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T&B® Cable Tray

Stainless Steel Cable Tray – Horizontal Bends 45° / 30°

Part Numbering System

(S4F-6)-18-V-HB4-24

- (S4F-6): Fitting Material
- 18: Width
- V: Siderail Depth
- HB: Fitting Type
- 4: Bottom Style
- 24: Radius

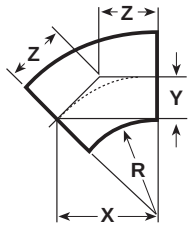
Selection Guide

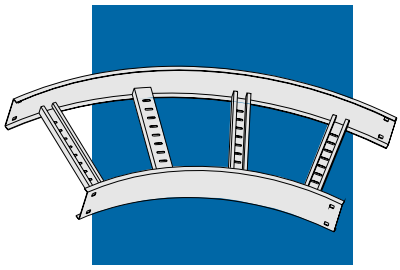
Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

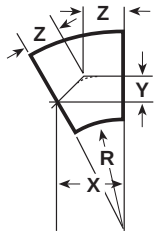
Bottom Styles:

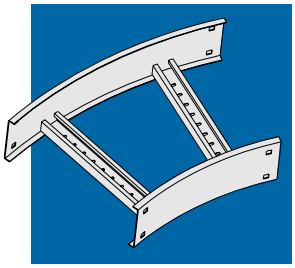
L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid





45° Horizontal Bend





30° Horizontal Bend

45° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOGUE NO.	DIMENSIONS X	Y	Z
12	6	(Prefix)-06-(*)HB45-12	10 5/8	6 1/2	6 3/16
	9	(Prefix)-09-(*)HB45-12	11 11/16	8	6 13/16
	12	(Prefix)-12-(*)HB45-12	12 3/4	9 1/2	7 7/16
	18	(Prefix)-18-(*)HB45-12	14 7/8	12 1/2	8 11/16
	24	(Prefix)-24-(*)HB45-12	17	15 1/2	9 15/16
	30	(Prefix)-30-(*)HB45-12	19 1/16	18 1/2	11 3/16
	36	(Prefix)-36-(*)HB45-12	21 3/16	21 1/2	12 7/16
	42	(Prefix)-42-(*)HB45-12	23 5/16	24 1/2	13 11/16
24	6	(Prefix)-06-(*)HB45-24	19 1/16	10	11 3/16
	9	(Prefix)-09-(*)HB45-24	20 1/8	11 1/2	11 13/16
	12	(Prefix)-12-(*)HB45-24	21 3/16	13	12 7/16
	18	(Prefix)-18-(*)HB45-24	23 5/16	16	13 11/16
	24	(Prefix)-24-(*)HB45-24	25 7/16	19	14 15/16
	30	(Prefix)-30-(*)HB45-24	27 9/16	22	16 1/8
	36	(Prefix)-36-(*)HB45-24	29 11/16	25	17 3/8
	42	(Prefix)-42-(*)HB45-24	31 13/16	28	18 5/8
36	6	(Prefix)-06-(*)HB45-36	27 9/16	13 9/16	16 1/8
	9	(Prefix)-09-(*)HB45-36	28 5/8	15 1/16	16 3/4
	12	(Prefix)-12-(*)HB45-36	29 11/16	16 9/16	17 3/8
	18	(Prefix)-18-(*)HB45-36	31 13/16	19 9/16	18 5/8
	24	(Prefix)-24-(*)HB45-36	33 15/16	22 9/16	19 7/8
	30	(Prefix)-30-(*)HB45-36	36 1/16	25 9/16	21 1/8
	36	(Prefix)-36-(*)HB45-36	38 3/16	28 9/16	22 3/8
	42	(Prefix)-42-(*)HB45-36	40 5/16	31 9/16	23 5/8
48	6	(Prefix)-06-(*)HB45-48	36 1/16	17 1/16	21 1/8
	9	(Prefix)-09-(*)HB45-48	37 1/8	18 9/16	21 3/4
	12	(Prefix)-12-(*)HB45-48	38 3/16	20 1/16	22 3/8
	18	(Prefix)-18-(*)HB45-48	40 5/16	23 1/16	23 5/8
	24	(Prefix)-24-(*)HB45-48	42 7/16	26 1/16	24 7/8
	30	(Prefix)-30-(*)HB45-48	44 9/16	29 1/16	26 1/8
	36	(Prefix)-36-(*)HB45-48	46 11/16	32 1/16	27 5/16
	42	(Prefix)-42-(*)HB45-48	48 13/16	35 1/16	28 9/16

(*) Insert bottom style to complete Catalog No.

30° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	6	(Prefix)-06-(*)HB30-12	7 1/2	4 5/8	4
	9	(Prefix)-09-(*)HB30-12	8 1/4	6 1/8	4 7/16
	12	(Prefix)-12-(*)HB30-12	9	7 5/8	4 13/16
	18	(Prefix)-18-(*)HB30-12	10 1/2	10 5/8	5 5/8
	24	(Prefix)-24-(*)HB30-12	12	13 5/8	6 7/16
	30	(Prefix)-30-(*)HB30-12	13 1/2	16 5/8	7 1/4
	36	(Prefix)-36-(*)HB30-12	15	19 5/8	8 1/16
	42	(Prefix)-42-(*)HB30-12	16 1/2	22 5/8	8 13/16
24	6	(Prefix)-06-(*)HB30-24	13 1/2	6 3/16	7 1/4
	9	(Prefix)-09-(*)HB30-24	14 1/4	7 11/16	7 5/8
	12	(Prefix)-12-(*)HB30-24	15	9 3/16	8 1/16
	18	(Prefix)-18-(*)HB30-24	16 1/2	12 3/16	8 13/16
	24	(Prefix)-24-(*)HB30-24	18	15 3/16	9 5/8
	30	(Prefix)-30-(*)HB30-24	19 1/2	18 3/16	10 7/16
	36	(Prefix)-36-(*)HB30-24	21	21 3/16	11 1/4
	42	(Prefix)-42-(*)HB30-24	22 1/2	24 3/16	12 1/16
36	6	(Prefix)-06-(*)HB30-36	19 1/2	7 13/16	10 7/16
	9	(Prefix)-09-(*)HB30-36	20 1/4	9 5/16	10 7/8
	12	(Prefix)-12-(*)HB30-36	21	10 13/16	11 1/4
	18	(Prefix)-18-(*)HB30-36	22 1/2	13 13/16	12 1/16
	24	(Prefix)-24-(*)HB30-36	24	16 13/16	12 7/8
	30	(Prefix)-30-(*)HB30-36	25 1/2	19 13/16	13 11/16
	36	(Prefix)-36-(*)HB30-36	27	22 13/16	14 1/2
	42	(Prefix)-42-(*)HB30-36	28 1/2	25 13/16	15 1/4
48	6	(Prefix)-06-(*)HB30-48	25 1/2	9 7/16	13 11/16
	9	(Prefix)-09-(*)HB30-48	26 1/4	10 15/16	14 1/16
	12	(Prefix)-12-(*)HB30-48	27	12 7/16	14 1/2
	18	(Prefix)-18-(*)HB30-48	28 1/2	15 7/16	15 1/4
	24	(Prefix)-24-(*)HB30-48	30	18 7/16	16 1/16
	30	(Prefix)-30-(*)HB30-48	31 1/2	21 7/16	16 7/8
	36	(Prefix)-36-(*)HB30-48	33	24 7/16	17 11/16
	42	(Prefix)-42-(*)HB30-48	34 1/2	27 7/16	18 1/2

Includes 1 pair of splice plates with hardware.

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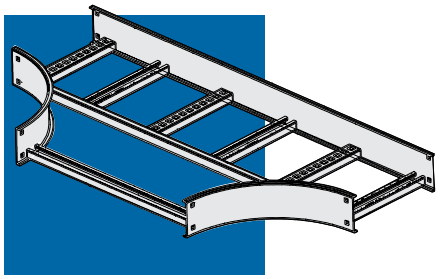
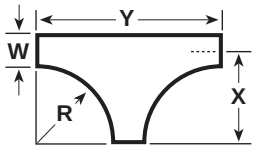
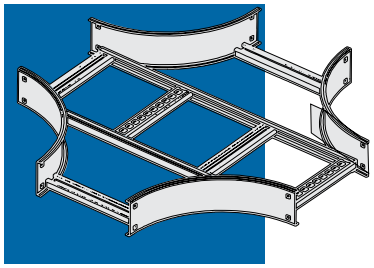
T&B® Cable Tray

Stainless Steel Cable Tray – Horizontal Tee, Cross

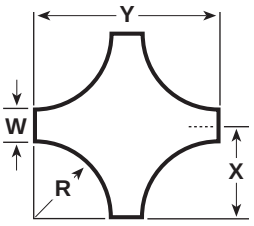


Tee





Cross



Part Numbering System

(S4F-5)-06-L-HT12

- (S4F-5) – Fitting Material
- 06 – Width
- L – Siderail Depth
- HT – Bottom Style
- 12 – Fitting Type
- Radius

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42*

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

HORIZONTAL TEE

RADIUS R	WIDTH	CATALOG NO.*	DIMENSIONS X	Y
	6	(Prefix)-06-(*)HT12	15	30
	9	(Prefix)-09-(*)HT12	16½	33
	12	(Prefix)-12-(*)HT12	18	36
12	18	(Prefix)-18-(*)HT12	21	42
	24	(Prefix)-24-(*)HT12	24	48
	30	(Prefix)-30-(*)HT12	27	54
	36	(Prefix)-36-(*)HT12	30	60
	42	(Prefix)-42-(*)HT12	33	66
	6	(Prefix)-06-(*)HT24	27	54
	9	(Prefix)-09-(*)HT24	28½	57
	12	(Prefix)-12-(*)HT24	30	60
24	18	(Prefix)-18-(*)HT24	33	66
	24	(Prefix)-24-(*)HT24	36	72
	30	(Prefix)-30-(*)HT24	39	78
	36	(Prefix)-36-(*)HT24	42	84
	42	(Prefix)-42-(*)HT24	45	90
	6	(Prefix)-06-(*)HT36	39	78
	9	(Prefix)-09-(*)HT36	40½	81
	12	(Prefix)-12-(*)HT36	42	84
36	18	(Prefix)-18-(*)HT36	45	90
	24	(Prefix)-24-(*)HT36	48	96
	30	(Prefix)-30-(*)HT36	51	102
	36	(Prefix)-36-(*)HT36	54	108
	42	(Prefix)-42-(*)HT36	57	114
	6	(Prefix)-06-(*)HT48	51	102
	9	(Prefix)-09-(*)HT48	52½	105
	12	(Prefix)-12-(*)HT48	54	108
48	18	(Prefix)-18-(*)HT48	57	114
	24	(Prefix)-24-(*)HT48	60	120
	30	(Prefix)-30-(*)HT48	63	126
	36	(Prefix)-36-(*)HT48	66	132
	42	(Prefix)-42-(*)HT48	69	138

HORIZONTAL CROSS

RADIUS R	WIDTH	CATALOG NO.*	DIMENSIONS X	Y
	6	(Prefix)-06-(*)HX12	15	30
	9	(Prefix)-09-(*)HX12	16½	33
	12	(Prefix)-12-(*)HX12	18	36
12	18	(Prefix)-18-(*)HX12	21	42
	24	(Prefix)-24-(*)HX12	24	48
	30	(Prefix)-30-(*)HX12	27	54
	36	(Prefix)-36-(*)HX12	30	60
	42	(Prefix)-42-(*)HX12	33	66
	6	(Prefix)-06-(*)HX24	27	54
	9	(Prefix)-09-(*)HX24	28½	57
	12	(Prefix)-12-(*)HX24	30	60
24	18	(Prefix)-18-(*)HX24	33	66
	24	(Prefix)-24-(*)HX24	36	72
	30	(Prefix)-30-(*)HX24	39	78
	36	(Prefix)-36-(*)HX24	42	84
	42	(Prefix)-42-(*)HX24	45	90
	6	(Prefix)-06-(*)HX36	39	78
	9	(Prefix)-09-(*)HX36	40½	81
	12	(Prefix)-12-(*)HX36	42	84
36	18	(Prefix)-18-(*)HX36	45	90
	24	(Prefix)-24-(*)HX36	48	96
	30	(Prefix)-30-(*)HX36	51	102
	36	(Prefix)-36-(*)HX36	54	108
	42	(Prefix)-42-(*)HX36	57	114
	6	(Prefix)-06-(*)HX48	51	102
	9	(Prefix)-09-(*)HX48	52½	105
	12	(Prefix)-12-(*)HX48	54	108
48	18	(Prefix)-18-(*)HX48	57	114
	24	(Prefix)-24-(*)HX48	60	120
	30	(Prefix)-30-(*)HX48	63	126
	36	(Prefix)-36-(*)HX48	66	132
	42	(Prefix)-42-(*)HX48	69	138

(*) Insert bottom style to complete Catalog No. Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

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T&B® Cable Tray

Stainless Steel Cable Tray – Reducers

Part Numbering System

(S4F-6)-42-36-L-HLR

- (S4F-6) — Fitting Material
- 42 — Width 1
- 36 — Width 2
- L — Bottom Style
- HLR — Fitting Type
- S4F-6 — Siderail Depth

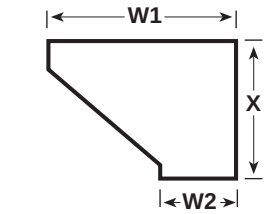
Selection Guide

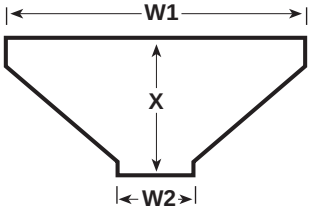
Inside Tray Widths:

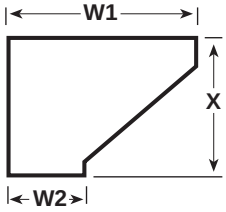
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

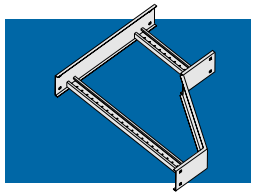
Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

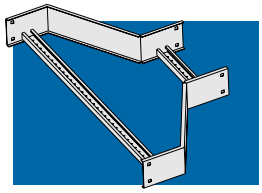




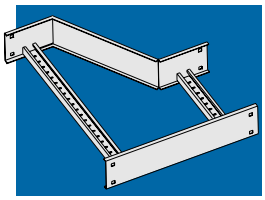




Offset Reducer-Left



Offset Reducer-Straight



Offset Reducer-Right

WIDTHS		LH REDUCER DIMENSIONS		STRAIGHT REDUCER (Concentric) DIMENSIONS		RH REDUCER DIMENSIONS	
W1	W2	CATALOG NO.*	X	CATALOG NO.*	X	CATALOG NO.*	X
	36	(Prefix)-42-36-(*)-HLR	11 7/16	(Prefix)-42-36-(*)-HSR	9 3/4	(Prefix)-42-36-(*)-HRR	11 7/16
	30	(Prefix)-42-30-(*)-HLR	14 15/16	(Prefix)-42-30-(*)-HSR	11 7/16	(Prefix)-42-30-(*)-HRR	14 15/16
	24	(Prefix)-42-24-(*)-HLR	18 3/8	(Prefix)-42-24-(*)-HSR	13 3/16	(Prefix)-42-24-(*)-HRR	18 3/8
42	18	(Prefix)-42-18-(*)-HLR	21 7/8	(Prefix)-42-18-(*)-HSR	14 15/16	(Prefix)-42-18-(*)-HRR	21 7/8
	12	(Prefix)-42-12-(*)-HLR	25 5/16	(Prefix)-42-12-(*)-HSR	16 11/16	(Prefix)-42-12-(*)-HRR	25 5/16
	9	(Prefix)-42-09-(*)-HLR	27 1/16	(Prefix)-42-09-(*)-HSR	17 1/2	(Prefix)-42-09-(*)-HRR	27 1/16
	6	(Prefix)-42-06-(*)-HLR	28 13/16	(Prefix)-42-06-(*)-HSR	18 3/8	(Prefix)-42-06-(*)-HRR	28 13/16
	30	(Prefix)-36-30-(*)-HLR	11 7/16	(Prefix)-36-30-(*)-HSR	9 3/4	(Prefix)-36-30-(*)-HRR	11 7/16
	24	(Prefix)-36-24-(*)-HLR	14 15/16	(Prefix)-36-24-(*)-HSR	11 7/16	(Prefix)-36-24-(*)-HRR	14 15/16
36	18	(Prefix)-36-18-(*)-HLR	18 3/8	(Prefix)-36-18-(*)-HSR	13 3/16	(Prefix)-36-18-(*)-HRR	18 3/8
	12	(Prefix)-36-12-(*)-HLR	21 7/8	(Prefix)-36-12-(*)-HSR	14 15/16	(Prefix)-36-12-(*)-HRR	21 7/8
	9	(Prefix)-36-09-(*)-HLR	23 9/16	(Prefix)-36-09-(*)-HSR	15 13/16	(Prefix)-36-09-(*)-HRR	23 9/16
	6	(Prefix)-36-06-(*)-HLR	25 5/16	(Prefix)-36-06-(*)-HSR	16 11/16	(Prefix)-36-06-(*)-HRR	25 5/16
	24	(Prefix)-30-24-(*)-HLR	11 7/16	(Prefix)-30-24-(*)-HSR	9 3/4	(Prefix)-30-24-(*)-HRR	11 7/16
	18	(Prefix)-30-18-(*)-HLR	14 15/16	(Prefix)-30-18-(*)-HSR	11 7/16	(Prefix)-30-18-(*)-HRR	14 15/16
30	12	(Prefix)-30-12-(*)-HLR	18 3/8	(Prefix)-30-12-(*)-HSR	13 3/16	(Prefix)-30-12-(*)-HRR	18 3/8
	9	(Prefix)-30-09-(*)-HLR	20 1/8	(Prefix)-30-09-(*)-HSR	14 1/16	(Prefix)-30-09-(*)-HRR	20 1/8
	6	(Prefix)-30-06-(*)-HLR	21 7/8	(Prefix)-30-06-(*)-HSR	14 15/16	(Prefix)-30-06-(*)-HRR	21 7/8
	18	(Prefix)-24-18-(*)-HLR	11 7/16	(Prefix)-24-18-(*)-HSR	9 3/4	(Prefix)-24-18-(*)-HRR	11 7/16
24	12	(Prefix)-24-12-(*)-HLR	14 15/16	(Prefix)-24-12-(*)-HSR	11 7/16	(Prefix)-24-12-(*)-HRR	14 15/16
	9	(Prefix)-24-09-(*)-HLR	16 11/16	(Prefix)-24-09-(*)-HSR	12 5/16	(Prefix)-24-09-(*)-HRR	16 11/16
	6	(Prefix)-24-06-(*)-HLR	18 3/8	(Prefix)-24-06-(*)-HSR	13 3/16	(Prefix)-24-06-(*)-HRR	18 3/8
	12	(Prefix)-18-12-(*)-HLR	11 7/16	(Prefix)-18-12-(*)-HSR	9 3/4	(Prefix)-18-12-(*)-HRR	11 7/16
18	9	(Prefix)-18-09-(*)-HLR	13 3/16	(Prefix)-18-09-(*)-HSR	10 5/8	(Prefix)-18-09-(*)-HRR	13 3/16
	6	(Prefix)-18-06-(*)-HLR	14 15/16	(Prefix)-18-06-(*)-HSR	11 7/16	(Prefix)-18-06-(*)-HRR	14 15/16
12	9	(Prefix)-12-09-(*)-HLR	9 3/4	(Prefix)-12-09-(*)-HSR	8 7/8	(Prefix)-12-09-(*)-HRR	9 3/4
	6	(Prefix)-12-06-(*)-HLR	11 7/16	(Prefix)-12-06-(*)-HSR	9 3/4	(Prefix)-12-06-(*)-HRR	11 7/16
9	6	(Prefix)-09-06-(*)-HLR	9 3/4	(Prefix)-09-06-(*)-HSR	8 7/8	(Prefix)-09-06-(*)-HRR	9 3/4

(*) Insert bottom style to complete Catalog No.

Includes 1 pair of splice plates with hardware.

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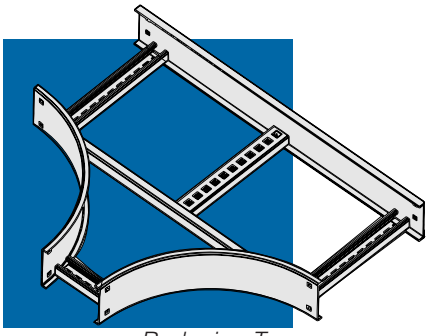
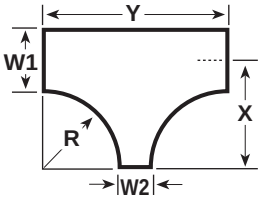
T&B® Cable Tray

Stainless Steel Cable Tray – Horizontal Reducing Tee



Reducing Tee



Part Numbering System

(S4F-7)-42-36-L-RT12

- (S4F-7) — Fitting Material
- 42 — Width 1
- 36 — Width 2
- L — Bottom Style
- RT — Fitting Type
- 12 — Radius

Siderail Depth

Selection Guide

Inside Tray Widths (W1 > W2):

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

HORIZONTAL REDUCING TEE WIDTHS			(+) 12" RADIUS		(+) 24" RADIUS		(+) 36" RADIUS		(+) 48" RADIUS	
W1	W2	CATALOG NO.*	X	Y	X	Y	X	Y	X	Y
	36	(Prefix)-42-36-(*)-RT(+)	33	60	45	84	57	108	69	132
	30	(Prefix)-42-30-(*)-RT(+)	33	54	45	78	57	102	69	126
	24	(Prefix)-42-24-(*)-RT(+)	33	48	45	72	57	96	69	120
42	18	(Prefix)-42-18-(*)-RT(+)	33	42	45	66	57	90	69	114
	12	(Prefix)-42-12-(*)-RT(+)	33	36	45	60	57	84	69	108
	9	(Prefix)-42-09-(*)-RT(+)	33	33	45	57	57	81	69	105
	6	(Prefix)-42-06-(*)-RT(+)	33	30	45	54	57	78	69	102
	30	(Prefix)-36-30-(*)-RT(+)	30	54	42	78	54	102	66	126
	24	(Prefix)-36-24-(*)-RT(+)	30	48	42	72	54	96	66	120
36	18	(Prefix)-36-18-(*)-RT(+)	30	42	42	66	54	90	66	114
	12	(Prefix)-36-12-(*)-RT(+)	30	36	42	60	54	84	66	108
	9	(Prefix)-36-09-(*)-RT(+)	30	33	42	57	54	81	66	105
	6	(Prefix)-36-06-(*)-RT(+)	30	30	42	54	54	78	66	102
	24	(Prefix)-30-24-(*)-RT(+)	27	48	39	72	51	96	63	120
	18	(Prefix)-30-18-(*)-RT(+)	27	42	39	66	51	90	63	114
30	12	(Prefix)-30-12-(*)-RT(+)	27	36	39	60	51	84	63	108
	9	(Prefix)-30-09-(*)-RT(+)	27	33	39	57	51	81	63	105
	6	(Prefix)-30-06-(*)-RT(+)	27	30	39	54	51	78	63	102
	18	(Prefix)-24-18-(*)-RT(+)	24	42	36	66	48	90	60	114
24	12	(Prefix)-24-12-(*)-RT(+)	24	36	36	60	48	84	60	108
	9	(Prefix)-24-09-(*)-RT(+)	24	33	36	57	48	81	60	105
	6	(Prefix)-24-06-(*)-RT(+)	24	30	36	54	48	78	60	102
	12	(Prefix)-18-12-(*)-RT(+)	21	36	33	60	45	84	57	108
18	9	(Prefix)-18-09-(*)-RT(+)	21	33	33	57	45	81	57	105
	6	(Prefix)-18-06-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	(Prefix)-12-09-(*)-RT(+)	18	33	30	57	42	81	54	105
	6	(Prefix)-12-06-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	(Prefix)-09-06-(*)-RT(+)	16½	30	28½	54	40½	78	52½	102

(*) Insert bottom style to complete Catalog No. (+) Insert radius (12"-48"). Includes 2 pairs of splice plates with hardware.

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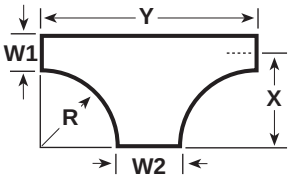
T&B® Cable Tray

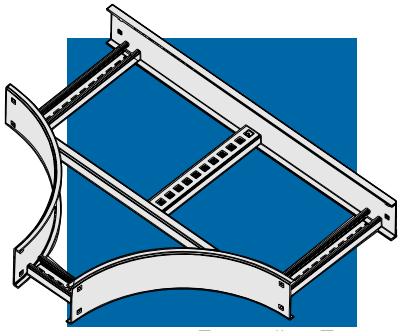
Stainless Steel Cable Tray – Horizontal Expanding Tee

Part Numbering System

(S4F-4)-06-09-L-ET24

- (S4F-4) — Fitting Material
- 06 — Siderail Depth
- 09 — Width 1
- L — Bottom Style
- ET24 — Radius
- Width 2
- Fitting Type





Expanding Tee

Selection Guide

Inside Tray Widths (W1 < W2):

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

HORIZONTAL EXPANDING TEE WIDTHS			(+) 12" RADIUS		(+) 24" RADIUS		(+) 36" RADIUS		(+) 48" RADIUS	
W1	W2	CATALOG NO.*	X	Y	X	Y	X	Y	X	Y
36	42	(Prefix)-36-42-(*)-ET(+)	30	66	42	90	54	114	66	138
30	36	(Prefix)-30-36-(*)-ET(+)	27	60	39	84	51	108	63	132
	42	(Prefix)-30-42-(*)-ET(+)	27	66	39	90	51	114	63	138
	30	(Prefix)-24-30-(*)-ET(+)	24	54	36	78	48	102	60	126
24	36	(Prefix)-24-36-(*)-ET(+)	24	60	36	84	48	108	60	132
	42	(Prefix)-24-42-(*)-ET(+)	24	66	36	90	48	114	60	138
	24	(Prefix)-18-24-(*)-ET(+)	21	48	33	72	45	96	57	120
18	30	(Prefix)-18-30-(*)-ET(+)	21	54	33	78	45	102	57	126
	36	(Prefix)-18-36-(*)-ET(+)	21	60	33	84	45	108	57	132
	42	(Prefix)-18-42-(*)-ET(+)	21	66	33	90	45	114	57	138
	18	(Prefix)-12-18-(*)-ET(+)	18	42	30	66	42	90	54	114
	24	(Prefix)-12-24-(*)-ET(+)	18	48	30	72	42	96	54	120
12	30	(Prefix)-12-30-(*)-ET(+)	18	54	30	78	42	102	54	126
	36	(Prefix)-12-36-(*)-ET(+)	18	60	30	84	42	108	54	132
	42	(Prefix)-12-42-(*)-ET(+)	18	66	30	90	42	114	54	138
	12	(Prefix)-09-12-(*)-ET(+)	16½	36	28½	60	40½	84	52½	108
	18	(Prefix)-09-18-(*)-ET(+)	16½	42	28½	66	40½	90	52½	114
9	24	(Prefix)-09-24-(*)-ET(+)	16½	48	28½	72	40½	96	52½	120
	30	(Prefix)-09-30-(*)-ET(+)	16½	54	28½	78	40½	102	52½	126
	36	(Prefix)-09-36-(*)-ET(+)	16½	60	28½	84	40½	108	52½	132
	42	(Prefix)-09-42-(*)-ET(+)	16½	66	28½	90	40½	114	52½	138
	9	(Prefix)-06-09-(*)-ET(+)	15	33	27	57	39	81	51	105
	12	(Prefix)-06-12-(*)-ET(+)	15	36	27	60	39	84	51	108
	18	(Prefix)-06-18-(*)-ET(+)	15	42	27	66	39	90	51	114
6	24	(Prefix)-06-24-(*)-ET(+)	15	48	27	72	39	96	51	120
	30	(Prefix)-06-30-(*)-ET(+)	15	54	27	78	39	102	51	126
	36	(Prefix)-06-36-(*)-ET(+)	15	60	27	84	39	108	51	132
	42	(Prefix)-06-42-(*)-ET(+)	15	66	27	90	39	114	51	138

(*) Insert bottom style to complete Catalog No. (+) Insert radius (12"-48"). Includes 2 pairs of splice plates with hardware.

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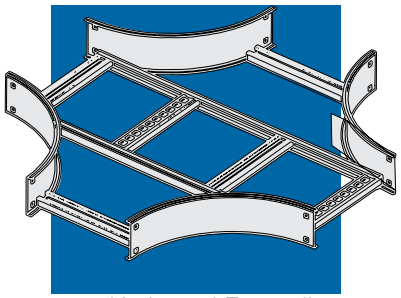
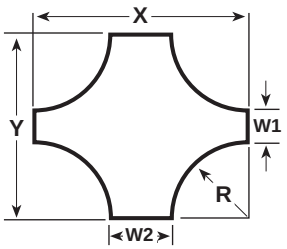
T&B® Cable Tray

Stainless Steel Cable Tray – Horizontal Expanding / Reducing Cross



Horizontal Expanding / Reducing Cross



Part Numbering System

(S4F-5)-36-42-L-EX36

- (S4F-5): Fitting Material
- 36: Width 1
- 42: Siderail Depth
- L: Bottom Style
- EX36: Width 2 / Fitting Type / Radius

Selection Guide

Inside Tray Widths (W1 < W2):

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

HORIZONTAL EXPANDING/REDUCING CROSS WIDTHS			(+) 12" RADIUS		(+) 24" RADIUS		(+) 36" RADIUS		(+) 48" RADIUS	
W1	W2	CATALOG NO.*	X	Y	X	Y	X	Y	X	Y
36		(Prefix)-36-42-(*)-EX(+)	66	60	90	84	114	108	138	132
30		(Prefix)-30-42-(*)-EX(+)	66	54	90	78	114	102	138	126
24		(Prefix)-24-42-(*)-EX(+)	66	48	90	72	114	96	138	120
18	42	(Prefix)-18-42-(*)-EX(+)	66	42	90	66	114	90	138	114
12		(Prefix)-12-42-(*)-EX(+)	66	36	90	60	114	84	138	108
9		(Prefix)-09-42-(*)-EX(+)	66	33	90	57	114	81	138	105
6		(Prefix)-06-42-(*)-EX(+)	66	30	90	54	114	78	138	102
30		(Prefix)-30-36-(*)-EX(+)	60	54	84	78	108	102	132	126
24		(Prefix)-24-36-(*)-EX(+)	60	48	84	72	108	96	132	120
18	36	(Prefix)-18-36-(*)-EX(+)	60	42	84	66	108	90	132	114
12		(Prefix)-12-36-(*)-EX(+)	60	36	84	60	108	84	132	108
9		(Prefix)-09-36-(*)-EX(+)	60	33	84	57	108	81	132	105
6		(Prefix)-06-36-(*)-EX(+)	60	30	84	54	108	78	132	102
24		(Prefix)-24-30-(*)-EX(+)	54	48	78	72	102	96	126	120
18		(Prefix)-18-30-(*)-EX(+)	54	42	78	66	102	90	126	114
12	30	(Prefix)-12-30-(*)-EX(+)	54	36	78	60	102	84	126	108
9		(Prefix)-09-30-(*)-EX(+)	54	33	78	57	102	81	126	105
6		(Prefix)-06-30-(*)-EX(+)	54	30	78	54	102	78	126	102
18		(Prefix)-18-24-(*)-EX(+)	48	42	72	66	96	90	120	114
12	24	(Prefix)-12-24-(*)-EX(+)	48	36	72	60	96	84	120	108
9		(Prefix)-09-24-(*)-EX(+)	48	33	72	57	96	81	120	105
6		(Prefix)-06-24-(*)-EX(+)	48	30	72	54	96	78	120	102
12		(Prefix)-12-18-(*)-EX(+)	42	36	66	60	90	84	114	108
9	18	(Prefix)-09-18-(*)-EX(+)	42	33	66	57	90	81	114	105
6		(Prefix)-06-18-(*)-EX(+)	42	30	66	54	90	78	114	102
9	12	(Prefix)-09-12-(*)-EX(+)	36	33	60	57	84	81	108	105
6		(Prefix)-06-12-(*)-EX(+)	36	30	60	54	84	78	108	102
6	9	(Prefix)-06-09-(*)-EX(+)	33	30	57	54	81	78	105	102

(*) Insert bottom style to complete Catalog No. (+) Insert radius (12"-48"). Includes 3 pairs of splice plates with hardware.

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T&B® Cable Tray

Stainless Steel Cable Tray – Horizontal Wye – 45°

Part Numbering System

(S4F-6)-36-L-HYL36

- (S4F-6) — Fitting Material
- 36 — Width
- L — Bottom Style
- HYL — Fitting Type
- 36 — Radius

Siderail Depth

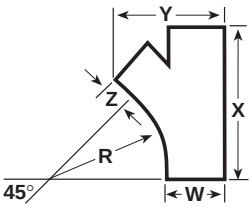
Selection Guide

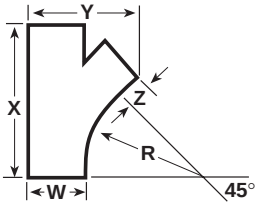
Inside Tray Widths:

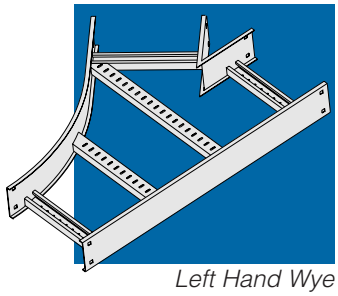
6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

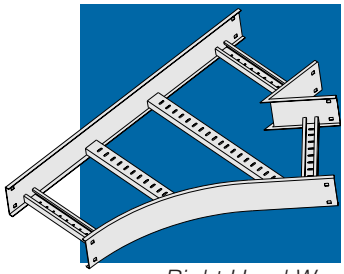
L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid







Left Hand Wye



Right Hand Wye

45° HORIZONTAL BEND

RADIUS	WIDTH			DIMENSIONS		
R		LEFT HAND WYE CAT. NO.*	LEFT HAND WYE CAT. NO.*	X	Y	Z
	6	(Prefix)-06-(*)-HYL12	(Prefix)-06-(*)-HYR12	23 7/16	15 5/16	8
	9	(Prefix)-09-(*)-HYL12	(Prefix)-09-(*)-HYR12	27 11/16	20 7/16	11
	12	(Prefix)-12-(*)-HYL12	(Prefix)-12-(*)-HYR12	31 15/16	25 9/16	14
12	18	(Prefix)-18-(*)-HYL12	(Prefix)-18-(*)-HYR12	40 3/8	35 13/16	20
	24	(Prefix)-24-(*)-HYL12	(Prefix)-24-(*)-HYR12	48 7/8	46 1/16	26
	30	(Prefix)-30-(*)-HYL12	(Prefix)-30-(*)-HYR12	57 3/8	56 1/4	32
	36	(Prefix)-36-(*)-HYL12	(Prefix)-36-(*)-HYR12	65 7/8	66 1/2	38
	42	(Prefix)-42-(*)-HYL12	(Prefix)-42-(*)-HYR12	77 5/16	76 3/4	44
	6	(Prefix)-06-(*)-HYL24	(Prefix)-06-(*)-HYR24	28 3/8	15 5/16	3
	9	(Prefix)-09-(*)-HYL24	(Prefix)-09-(*)-HYR24	32 5/8	20 7/16	6
	12	(Prefix)-12-(*)-HYL24	(Prefix)-12-(*)-HYR24	36 7/8	25 9/16	9
24	18	(Prefix)-18-(*)-HYL24	(Prefix)-18-(*)-HYR24	45 3/8	35 13/16	15
	24	(Prefix)-24-(*)-HYL24	(Prefix)-24-(*)-HYR24	53 7/8	46 1/16	21
	30	(Prefix)-30-(*)-HYL24	(Prefix)-30-(*)-HYR24	62 5/16	56 1/4	27
	36	(Prefix)-36-(*)-HYL24	(Prefix)-36-(*)-HYR24	70 13/16	66 1/2	33
	42	(Prefix)-42-(*)-HYL24	(Prefix)-42-(*)-HYR24	79 5/16	76 3/4	39
	6	(Prefix)-06-(*)-HYL36	(Prefix)-06-(*)-HYR36	38 5/16	18 13/16	3
	9	(Prefix)-09-(*)-HYL36	(Prefix)-09-(*)-HYR36	42 9/16	23 15/16	6
	12	(Prefix)-12-(*)-HYL36	(Prefix)-12-(*)-HYR36	46 13/16	29 1/16	9
36	18	(Prefix)-18-(*)-HYL36	(Prefix)-18-(*)-HYR36	55 1/4	39 1/4	15
	24	(Prefix)-24-(*)-HYL36	(Prefix)-24-(*)-HYR36	63 3/4	49 1/2	21
	30	(Prefix)-30-(*)-HYL36	(Prefix)-30-(*)-HYR36	72 1/4	59 3/4	27
	36	(Prefix)-36-(*)-HYL36	(Prefix)-36-(*)-HYR36	80 3/4	70	33
	42	(Prefix)-42-(*)-HYL36	(Prefix)-42-(*)-HYR36	89 1/4	80 1/4	39
	6	(Prefix)-06-(*)-HYL48	(Prefix)-06-(*)-HYR48	48 1/4	22 5/16	3
	9	(Prefix)-09-(*)-HYL48	(Prefix)-09-(*)-HYR48	52 1/2	27 7/16	6
	12	(Prefix)-12-(*)-HYL48	(Prefix)-12-(*)-HYR48	56 3/4	32 9/16	9
48	18	(Prefix)-18-(*)-HYL48	(Prefix)-18-(*)-HYR48	65 1/4	42 13/16	15
	24	(Prefix)-24-(*)-HYL48	(Prefix)-24-(*)-HYR48	73 11/16	53 1/16	21
	30	(Prefix)-30-(*)-HYL48	(Prefix)-30-(*)-HYR48	82 3/16	63 1/4	27
	36	(Prefix)-36-(*)-HYL48	(Prefix)-36-(*)-HYR48	90 11/16	73 1/2	33
	42	(Prefix)-42-(*)-HYL48	(Prefix)-42-(*)-HYR48	99 3/16	83 3/4	39

(*) Insert bottom style to complete Catalog No.

Includes 2 pairs of splice plates with hardware.

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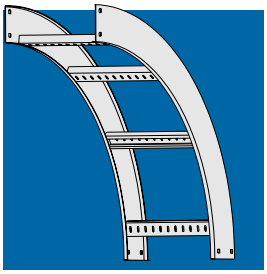
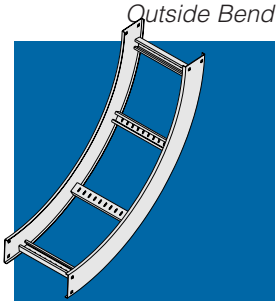
T&B® Cable Tray

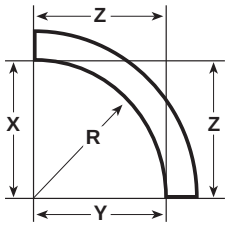
Stainless Steel Cable Tray – Vertical Bend – 90°

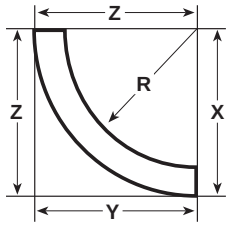


Outside Bend



Inside Bend





Part Numbering System

(S4F-7)-30-L-VI90-36

- (S4F-7): Fitting Material
- 30: Siderail Depth
- L: Bottom Style
- VI: Width
- 90: Fitting Type
- 36: Fitting Type

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

RADIUS	WIDTH		(+) VO SIDERAIL HEIGHT 3½"–7"			(+) VI SIDERAIL HEIGHT 3½"			4"			5"			6"			7"		
R		CATALOG NO.*	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	(Prefix)-06-(*)-(+)90-12	12	12	12	15⅝	15⅝	15⅝	16 3/16	16 3/16	16 3/16	17 3/16	17 3/16	17 3/16	18 3/16	18 3/16	18 3/16	19 3/16	19 3/16	19 3/16
	9	(Prefix)-09-(*)-(+)90-12																		
	12	(Prefix)-12-(*)-(+)90-12																		
	18	(Prefix)-18-(*)-(+)90-12																		
	24	(Prefix)-24-(*)-(+)90-12																		
	30	(Prefix)-30-(*)-(+)90-12																		
	36	(Prefix)-36-(*)-(+)90-12																		
	42	(Prefix)-42-(*)-(+)90-12																		
24	6	(Prefix)-06-(*)-(+)90-24	24	24	24	27⅝	27⅝	27⅝	28 3/16	28 3/16	28 3/16	29 3/16	29 3/16	29 3/16	30 3/16	30 3/16	30 3/16	31 3/16	31 3/16	31 3/16
	9	(Prefix)-09-(*)-(+)90-24																		
	12	(Prefix)-12-(*)-(+)90-24																		
	18	(Prefix)-18-(*)-(+)90-24																		
	24	(Prefix)-24-(*)-(+)90-24																		
	30	(Prefix)-30-(*)-(+)90-24																		
	36	(Prefix)-36-(*)-(+)90-24																		
	42	(Prefix)-42-(*)-(+)90-24																		
36	6	(Prefix)-06-(*)-(+)90-36	36	36	36	39⅝	39⅝	39⅝	40 3/16	40 3/16	40 3/16	41 3/16	41 3/16	41 3/16	42 3/16	42 3/16	42 3/16	43 3/16	43 3/16	43 3/16
	9	(Prefix)-09-(*)-(+)90-36																		
	12	(Prefix)-12-(*)-(+)90-36																		
	18	(Prefix)-18-(*)-(+)90-36																		
	24	(Prefix)-24-(*)-(+)90-36																		
	30	(Prefix)-30-(*)-(+)90-36																		
	36	(Prefix)-36-(*)-(+)90-36																		
	42	(Prefix)-42-(*)-(+)90-36																		
48	6	(Prefix)-06-(*)-(+)90-48	48	48	48	51⅝	51⅝	51⅝	52 3/16	52 3/16	52 3/16	53 3/16	53 3/16	53 3/16	54 3/16	54 3/16	54 3/16	55 3/16	55 3/16	55 3/16
	9	(Prefix)-09-(*)-(+)90-48																		
	12	(Prefix)-12-(*)-(+)90-48																		
	18	(Prefix)-18-(*)-(+)90-48																		
	24	(Prefix)-24-(*)-(+)90-48																		
	30	(Prefix)-30-(*)-(+)90-48																		
	36	(Prefix)-36-(*)-(+)90-48																		
	42	(Prefix)-42-(*)-(+)90-48																		

(*) Insert bottom style to complete Catalog No. (+) insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

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T&B® Cable Tray

Stainless Steel Cable Tray – Vertical Bend – 60°

Part Numbering System

(S4F-4)-36-V-VO60-24

- (S4F-4): Fitting Material, Siderail Depth
- 36: Width
- V: Bottom Style
- VO: Fitting Type
- 60: Degree
- 24: Fitting Type

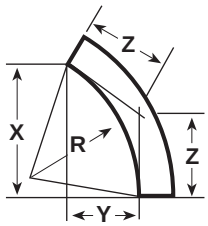
Selection Guide

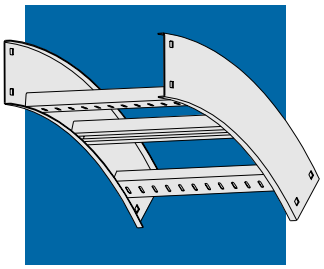
Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

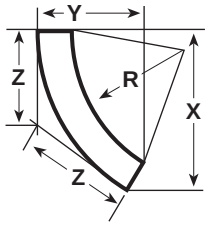
Bottom Styles:

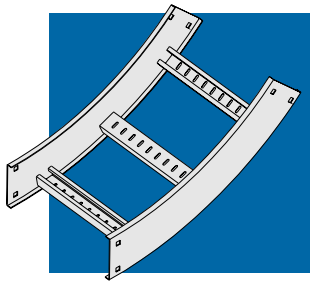
L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid





Outside Bend





Inside Bend

RADIUS	WIDTH		(+) VO SIDERAIL HEIGHT 3½"–7"			(+) VI SIDERAIL HEIGHT 3½"			4"			5"			6"			7"		
R		CATALOG NO.*	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	(Prefix)-06-(*)-(+)60-12	10 3/8	6	6 15/16	14	9 5/8	9	14 3/16	10 3/16	9 3/8	15 5/16	11 3/16	9 15/16	16 5/16	12 3/16	10 1/2	17 5/16	13 3/16	11 1/16
	9	(Prefix)-09-(*)-(+)60-12																		
	12	(Prefix)-12-(*)-(+)60-12																		
	18	(Prefix)-18-(*)-(+)60-12																		
	24	(Prefix)-24-(*)-(+)60-12																		
	30	(Prefix)-30-(*)-(+)60-12																		
	36	(Prefix)-36-(*)-(+)60-12																		
	42	(Prefix)-42-(*)-(+)60-12																		
24	6	(Prefix)-06-(*)-(+)60-24	20 13/16	12	13 7/8	24 7/16	15 5/8	15 15/16	25	16 3/16	16 1/4	26	17 3/16	16 7/8	27	18 3/16	17 7/16	28	19 3/16	18
	9	(Prefix)-09-(*)-(+)60-24																		
	12	(Prefix)-12-(*)-(+)60-24																		
	18	(Prefix)-18-(*)-(+)60-24																		
	24	(Prefix)-24-(*)-(+)60-24																		
	30	(Prefix)-30-(*)-(+)60-24																		
	36	(Prefix)-36-(*)-(+)60-24																		
	42	(Prefix)-42-(*)-(+)60-24																		
36	6	(Prefix)-06-(*)-(+)60-36	31 3/16	18	20 13/16	34 13/16	21 5/8	22 7/8	35 3/8	22 3/16	23 3/16	36 3/8	23 3/16	23 3/4	37 3/8	24 3/16	24 3/8	38 3/8	25 3/16	24 15/16
	9	(Prefix)-09-(*)-(+)60-36																		
	12	(Prefix)-12-(*)-(+)60-36																		
	18	(Prefix)-18-(*)-(+)60-36																		
	24	(Prefix)-24-(*)-(+)60-36																		
	30	(Prefix)-30-(*)-(+)60-36																		
	36	(Prefix)-36-(*)-(+)60-36																		
	42	(Prefix)-42-(*)-(+)60-36																		
48	6	(Prefix)-06-(*)-(+)60-48	41 9/16	24	27 11/16	45 3/16	27 5/8	29 13/16	45 3/4	28 3/16	30 1/8	46 3/4	29 3/16	30 11/16	47 3/4	30 3/16	31 5/16	48 3/4	31 3/16	31 7/8
	9	(Prefix)-09-(*)-(+)60-48																		
	12	(Prefix)-12-(*)-(+)60-48																		
	18	(Prefix)-18-(*)-(+)60-48																		
	24	(Prefix)-24-(*)-(+)60-48																		
	30	(Prefix)-30-(*)-(+)60-48																		
	36	(Prefix)-36-(*)-(+)60-48																		
	42	(Prefix)-42-(*)-(+)60-48																		

(*) Insert bottom style to complete Catalog No. (+) insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

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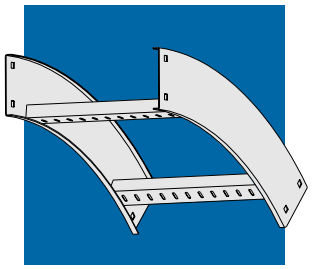
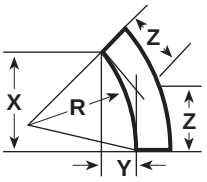
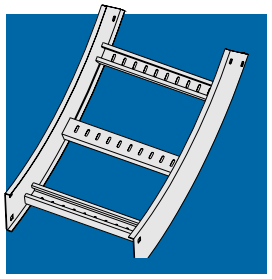
T&B® Cable Tray

Stainless Steel Cable Tray – Vertical Bend 45°

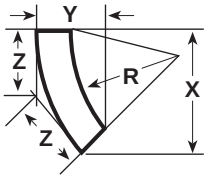


Outside Bend





Inside Bend



Part Numbering System

(S4F-5)-24-S-VI45-48

- (S4F-5) – Fitting Material
- 24 – Width
- S – Siderail Depth
- VI – Fitting Type
- 45 – Bottom Style
- 48 – Degree
- Fitting Type

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid

RADIUS	WIDTH		(+) VO SIDERAIL HEIGHT 3½"–7"			(+) VI SIDERAIL HEIGHT 3½"			4"			5"			6"			7"		
R		CATALOG NO.*	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	(Prefix)-06-(*)-(+)45-12	8½	3½	5	12⅛	7⅛	6½	12 11/16	7 11/16	6 11/16	13 11/16	8 11/16	7⅛	14 11/16	9 11/16	7 9/16	15 11/16	10 11/16	7 15/16
	9	(Prefix)-09-(*)-(+)45-12																		
	12	(Prefix)-12-(*)-(+)45-12																		
	18	(Prefix)-18-(*)-(+)45-12																		
	24	(Prefix)-24-(*)-(+)45-12																		
	30	(Prefix)-30-(*)-(+)45-12																		
	36	(Prefix)-36-(*)-(+)45-12																		
	42	(Prefix)-42-(*)-(+)45-12																		
24	6	(Prefix)-06-(*)-(+)45-24	17	7	9 15/16	20⅝	10⅝	11 7/16	21⅜	11⅜	11 1/16	22⅜	12⅜	12 1/16	23⅜	13⅜	12½	24⅜	14⅜	12 15/16
	9	(Prefix)-09-(*)-(+)45-24																		
	12	(Prefix)-12-(*)-(+)45-24																		
	18	(Prefix)-18-(*)-(+)45-24																		
	24	(Prefix)-24-(*)-(+)45-24																		
	30	(Prefix)-30-(*)-(+)45-24																		
	36	(Prefix)-36-(*)-(+)45-24																		
	42	(Prefix)-42-(*)-(+)45-24																		
36	6	(Prefix)-06-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	29 1/16	14 3/16	16 7/16	29⅝	14¾	16⅝	30⅝	15¾	17 1/16	31⅝	16¾	17½	32⅝	17¾	17⅞
	9	(Prefix)-09-(*)-(+)45-36																		
	12	(Prefix)-12-(*)-(+)45-36																		
	18	(Prefix)-18-(*)-(+)45-36																		
	24	(Prefix)-24-(*)-(+)45-36																		
	30	(Prefix)-30-(*)-(+)45-36																		
	36	(Prefix)-36-(*)-(+)45-36																		
	42	(Prefix)-42-(*)-(+)45-36																		
48	6	(Prefix)-06-(*)-(+)45-48	33 15/16	14 1/16	19⅞	37 11/16	17 11/16	21⅜	38⅛	18¼	21⅝	39⅛	19¼	22	40⅛	20¼	22 7/16	41⅛	21¼	22⅞
	9	(Prefix)-09-(*)-(+)45-48																		
	12	(Prefix)-12-(*)-(+)45-48																		
	18	(Prefix)-18-(*)-(+)45-48																		
	24	(Prefix)-24-(*)-(+)45-48																		
	30	(Prefix)-30-(*)-(+)45-48																		
	36	(Prefix)-36-(*)-(+)45-48																		
	42	(Prefix)-42-(*)-(+)45-48																		

(*) Insert bottom style to complete Catalog No. (+) insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

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T&B® Cable Tray

Stainless Steel Cable Tray – Vertical Bend 30°

Part Numbering System

(S4F-6)-12-L-VO30-24

Fitting Material	Siderail Depth	Width	Bottom Style	Fitting Type	Degree	Fitting Type

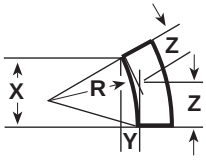
Selection Guide

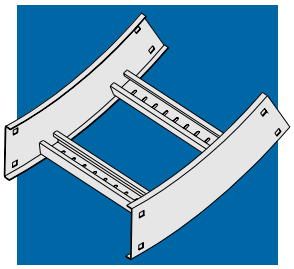
Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

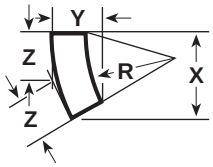
Bottom Styles:

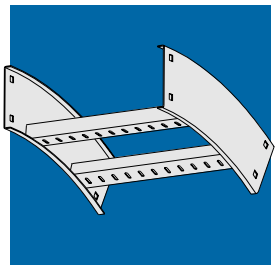
L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid





Inside Bend





Outside Bend

RADIUS	WIDTH		(+) VO SIDERAIL HEIGHT 3½"–7"			(+) VI SIDERAIL HEIGHT 3½"			4"			5"			6"			7"		
R		CATALOG NO.*	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	(Prefix)-06-(*)-(+)30-12	6	1⅝	3 3/16	9⅝	5¼	4 3/16	10 3/16	5 13/16	4 5/16	11 3/16	6 13/16	4⅝	12 3/16	7 13/16	4⅞	13 3/16	8 13/16	5⅛
	9	(Prefix)-09-(*)-(+)30-12																		
	12	(Prefix)-12-(*)-(+)30-12																		
	18	(Prefix)-18-(*)-(+)30-12																		
	24	(Prefix)-24-(*)-(+)30-12																		
	30	(Prefix)-30-(*)-(+)30-12																		
	36	(Prefix)-36-(*)-(+)30-12																		
	42	(Prefix)-42-(*)-(+)30-12																		
24	6	(Prefix)-06-(*)-(+)30-24	12	3 3/16	6 7/16	15⅝	6 13/16	7⅜	16 3/16	7⅜	7 9/16	17 3/16	8⅜	7 13/16	18 3/16	9⅜	8 1/16	19 3/16	10⅜	8⅜
	9	(Prefix)-09-(*)-(+)30-24																		
	12	(Prefix)-12-(*)-(+)30-24																		
	18	(Prefix)-18-(*)-(+)30-24																		
	24	(Prefix)-24-(*)-(+)30-24																		
	30	(Prefix)-30-(*)-(+)30-24																		
	36	(Prefix)-36-(*)-(+)30-24																		
	42	(Prefix)-42-(*)-(+)30-24																		
36	6	(Prefix)-06-(*)-(+)30-36	18	4 13/16	9⅝	21⅝	8 7/16	10⅝	22 3/16	9	10¾	23 3/16	10	11 1/16	24 3/16	11	11 5/16	25 3/16	12	11 9/16
	9	(Prefix)-09-(*)-(+)30-36																		
	12	(Prefix)-12-(*)-(+)30-36																		
	18	(Prefix)-18-(*)-(+)30-36																		
	24	(Prefix)-24-(*)-(+)30-36																		
	30	(Prefix)-30-(*)-(+)30-36																		
	36	(Prefix)-36-(*)-(+)30-36																		
	42	(Prefix)-42-(*)-(+)30-36																		
48	6	(Prefix)-06-(*)-(+)30-48	24	6 7/16	12⅞	27⅝	10 1/16	13 13/16	28 3/16	10⅝	14	29 3/16	11⅝	14¼	30 3/16	12⅝	14½	31 3/16	13⅝	14 13/16
	9	(Prefix)-09-(*)-(+)30-48																		
	12	(Prefix)-12-(*)-(+)30-48																		
	18	(Prefix)-18-(*)-(+)30-48																		
	24	(Prefix)-24-(*)-(+)30-48																		
	30	(Prefix)-30-(*)-(+)30-48																		
	36	(Prefix)-36-(*)-(+)30-48																		
	42	(Prefix)-42-(*)-(+)30-48																		

(*) Insert bottom style to complete Catalog No. (+) insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

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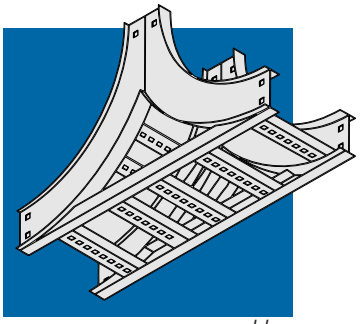
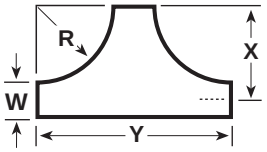
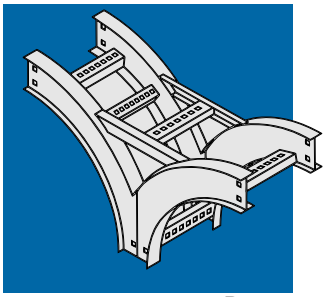
T&B® Cable Tray

Stainless Steel Cable Tray – Vertical Tee Up/Down

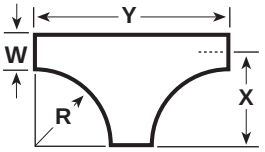


Up





Down



Part Numbering System

(S4F-6)-24-L-VTD12

- (S4F-6): Fitting Material
- 24: Width
- L: Siderail Depth
- V: Bottom Style
- TD: Fitting Type
- 12: Radius

Selection Guide

Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"=L09,
V– Ventilated / S– Solid

RADIUS	WIDTH	VERTICAL TEE UP	VERTICAL TEE DOWN	SIDERAIL HEIGHT "H"									
				3½"		4"		5"		6"		7"	
R	W	CATALOG NO.	CATALOG NO.	X	Y	X	Y	X	Y	X	Y	X	Y
12	6	(Prefix)-06-(*)-VTU12	(Prefix)-06-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16	14 5/8	29 3/16	15 1/8	30 3/16	15 5/8	31 3/16
	9	(Prefix)-09-(*)-VTU12	(Prefix)-09-(*)-VTD12										
	12	(Prefix)-12-(*)-VTU12	(Prefix)-12-(*)-VTD12										
	18	(Prefix)-18-(*)-VTU12	(Prefix)-18-(*)-VTD12										
	24	(Prefix)-24-(*)-VTU12	(Prefix)-24-(*)-VTD12										
	30	(Prefix)-30-(*)-VTU12	(Prefix)-30-(*)-VTD12										
	36	(Prefix)-36-(*)-VTU12	(Prefix)-36-(*)-VTD12										
	42	(Prefix)-42-(*)-VTU12	(Prefix)-42-(*)-VTD12										
24	6	(Prefix)-06-(*)-VTU24	(Prefix)-06-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16	26 5/8	53 3/16	27 1/8	54 3/16	27 5/8	55 3/16
	9	(Prefix)-09-(*)-VTU24	(Prefix)-09-(*)-VTD24										
	12	(Prefix)-12-(*)-VTU24	(Prefix)-12-(*)-VTD24										
	18	(Prefix)-18-(*)-VTU24	(Prefix)-18-(*)-VTD24										
	24	(Prefix)-24-(*)-VTU24	(Prefix)-24-(*)-VTD24										
	30	(Prefix)-30-(*)-VTU24	(Prefix)-30-(*)-VTD24										
	36	(Prefix)-36-(*)-VTU24	(Prefix)-36-(*)-VTD24										
	42	(Prefix)-42-(*)-VTU24	(Prefix)-42-(*)-VTD24										
36	6	(Prefix)-06-(*)-VTU36	(Prefix)-06-(*)-VTD36	NA	NA	38 1/8	76 3/16	38 5/8	77 3/16	39 1/8	78 3/16	39 5/8	79 3/16
	9	(Prefix)-09-(*)-VTU36	(Prefix)-09-(*)-VTD36										
	12	(Prefix)-12-(*)-VTU36	(Prefix)-12-(*)-VTD36										
	18	(Prefix)-18-(*)-VTU36	(Prefix)-18-(*)-VTD36										
	24	(Prefix)-24-(*)-VTU36	(Prefix)-24-(*)-VTD36										
	30	(Prefix)-30-(*)-VTU36	(Prefix)-30-(*)-VTD36										
	36	(Prefix)-36-(*)-VTU36	(Prefix)-36-(*)-VTD36										
	42	(Prefix)-42-(*)-VTU36	(Prefix)-42-(*)-VTD36										
48	6	(Prefix)-06-(*)-VTU48	(Prefix)-06-(*)-VTD48	NA	NA	50 1/8	100 3/16	50 5/8	101 3/16	51 1/8	102 3/16	51 5/8	103 3/16
	9	(Prefix)-09-(*)-VTU48	(Prefix)-09-(*)-VTD48										
	12	(Prefix)-12-(*)-VTU48	(Prefix)-12-(*)-VTD48										
	18	(Prefix)-18-(*)-VTU48	(Prefix)-18-(*)-VTD48										
	24	(Prefix)-24-(*)-VTU48	(Prefix)-24-(*)-VTD48										
	30	(Prefix)-30-(*)-VTU48	(Prefix)-30-(*)-VTD48										
	36	(Prefix)-36-(*)-VTU48	(Prefix)-36-(*)-VTD48										
	42	(Prefix)-42-(*)-VTU48	(Prefix)-42-(*)-VTD48										

(*) Insert bottom style to complete Catalog No.

Includes 2 pairs of splice plates with hardware.

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T&B® Cable Tray

Stainless Steel Cable Tray – Cable Support Fitting

Part Numbering System

(54F-7)-24-V-CS9012

(54F-7)	-24	-V	-CS	9012
Fitting Material	Width	Fitting Type	Radius	
Siderail Depth	Bottom Style	Degree		

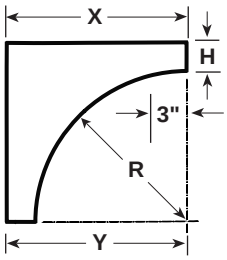
Selection Guide

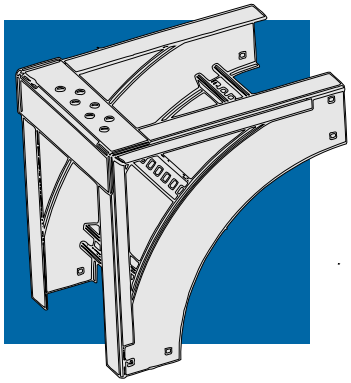
Inside Tray Widths:

6"=06, 9"=09, 12"=12, 18"=18, 24"=24, 30"=30, 36"=36, 42"=42

Bottom Styles:

L– Standard Ladder Rung Spacing– 9"
V– Ventilated / S– Solid





Steel Cable Support Fitting

RADIUS	WIDTH		SIDERAIL HEIGHT "H"				
			3⅞"	4"	5"	6"	7"
R	W	CATALOG NO.	X				
12	6	(Prefix)-06-(*)-CS12	15.625	16.188	17.188	18.188	19.188
	9	(Prefix)-09-(*)-CS12					
	12	(Prefix)-12-(*)-CS12					
	18	(Prefix)-18-(*)-CS12					
	24	(Prefix)-24-(*)-CS12					
	30	(Prefix)-30-(*)-CS12					
	36	(Prefix)-36-(*)-CS12					
	42	(Prefix)-42-(*)-CS12					
24	6	(Prefix)-06-(*)-CS24	27.625	28.188	29.188	30.188	31.188
	9	(Prefix)-09-(*)-CS24					
	12	(Prefix)-12-(*)-CS24					
	18	(Prefix)-18-(*)-CS24					
	24	(Prefix)-24-(*)-CS24					
	30	(Prefix)-30-(*)-CS24					
	36	(Prefix)-36-(*)-CS24					
	42	(Prefix)-42-(*)-CS24					
36	6	(Prefix)-06-(*)-CS36	39.625	40.188	41.188	42.188	43.188
	9	(Prefix)-09-(*)-CS36					
	12	(Prefix)-12-(*)-CS36					
	18	(Prefix)-18-(*)-CS36					
	24	(Prefix)-24-(*)-CS36					
	30	(Prefix)-30-(*)-CS36					
	36	(Prefix)-36-(*)-CS36					
	42	(Prefix)-42-(*)-CS36					
48	6	(Prefix)-06-(*)-CS48	51.625	52.188	53.188	54.188	55.188
	9	(Prefix)-09-(*)-CS48					
	12	(Prefix)-12-(*)-CS48					
	18	(Prefix)-18-(*)-CS48					
	24	(Prefix)-24-(*)-CS48					
	30	(Prefix)-30-(*)-CS48					
	36	(Prefix)-36-(*)-CS48					
	42	(Prefix)-42-(*)-CS48					

(*) Insert bottom style to complete Catalog No.

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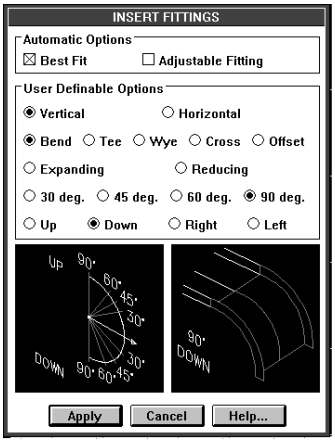
T&B® Cable Tray

Stainless Steel Cable Tray – Tray-Pro™ Ffeatures



Thomas & Betts Tray-Pro™ is an innovative, easy to use design package for AutoCad 12, AutoCad 13, and AutoCad Release 2000 (Windows or DOS).

Now available to download from the internet:

www.members.home.net/ctc/

G

T&B® Cable Tray

Features

- Single line, 2D and 3D drawing capability.
- Automatic bill of material generator with multiple database file merging capability.
- Automatic specification generator.
- Visual interference checking through 3D.
- Open architecture layer control.
- Full editing capability.
- Automatic cable tray annotation.
- Automatic tray support drawing capability.
- Design load calculator.
- On-line NEC, NEMA and CSA standards help/assistance.
- Full detail and accessory library.
- Complete and easy to use dialog box interface.
- Metric capability.

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T&B® Cable Tray

Stainless Steel Cable Tray – Accessories, Covers

Tray Covers

Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Outside cable tray runs should be covered with a Peaked Flanged cover to protect cable from the elements and excess build up of snow and ice.

Solid Covers:

These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have ½" flange.

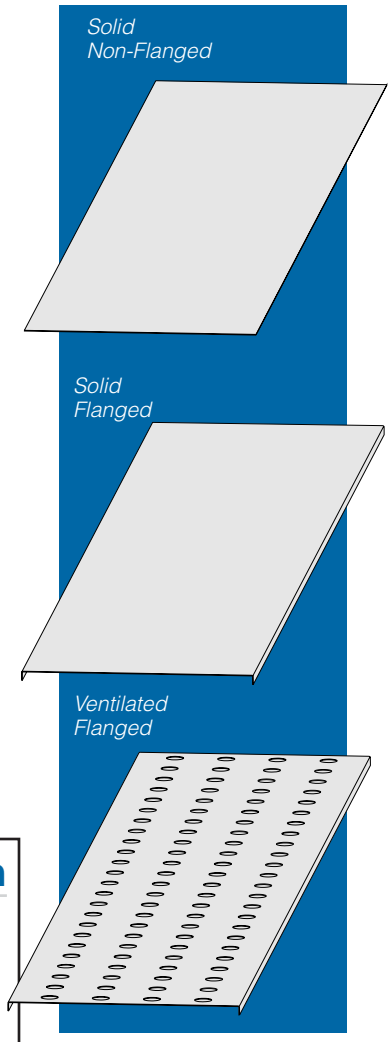
Ventilated Flanged Covers:

This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Peaked Flanged Covers:

Peaked covers offer mechanical protection plus prevents accumulation of liquid on the cover. Peaked covers have 15° rise at the peak. Covers 12" wide and less available in 72" and 144" length. Covers greater than 12" wide available in 72" length only. Fittings covers are not available in Peaked Flange.

Notes: Cover mounting hardware must be ordered separately.
Material thickness = 19GA



Straight Cover Catalog Number Selection

(S4W-12)-SNC-72

Prefix

Material	Width	Type	Length
S4W • 304 Stainless Steel S6W • 316 Stainless Steel	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover PFC • Peaked Flanged Cover	72 • (72") 144 • (12ft)

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T&B® Cable Tray

Stainless Steel Cable Tray – Accessories, Covers

Fitting Cover Catalog Number Selection

(S4W-12)-SNC-HB 90-24

Material	Width	Cover Type	Fitting Type	Degree*	Radius
S4W 304 Stainless S6W 316 Stainless	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VI • Vertical Inside Bend VTU • Vertical Tee Down HYR • Horizontal Wye Right HYL • Horizontal Wye Left	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36") 48 • (48")
Prefix					

*Required for HB & VI only

(S4W-18-12)-SNC-RT-12

Material	Width 1	Width 2	Cover Type	Fitting Type	Radius*
S4W 304 Stainless S6W 316 Stainless	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	RT • Horizontal Reduce Tee ET • Horizontal Expand Tee EX • Horizontal Expand Tee & Reduce Cross HSR • Horizontal Straight Reducer HLR • Horizontal Left Reducer HRR • Horizontal Right Reducer	12 • (12") 24 • (24") 36 • (36") 48 • (48")
Prefix					

*Radius not required for HSR, HLR, HRR

(S4W-4-12)-SNC-VO-90-24

Material	Siderail Height	Width 2	Cover Type	Fitting Type	Degree*	Radius
S4W 304 Stainless S6W 316 Stainless	3⅞ • (3⅞") 4 • (4") 5 • (5") 6 • (6") 7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	VO • Vertical Outside Bend VTD • Vertical Tee Down	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36") 48 • (48")
Prefix						

*Required for VO only

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T&B® Cable Tray

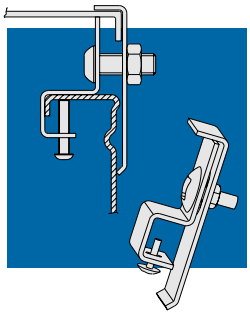
Stainless Steel Cable Tray – Accessories, Covers

MATERIAL	COVER OFFSET	CATALOG NO.
S4W	1"	S4W*RCC
304 Stainless	2"	S6W*RCC
S6W	3"	
316 Stainless		

**Cover offset*

Raised Cover Clamp

Designed to raise cover above tray for added ventilation.

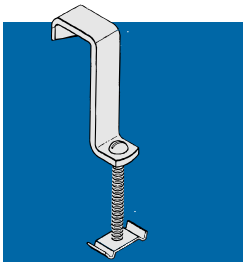


MATERIAL PREFIX	SIDERAIL HEIGHT	CATALOG NO.
S4W 304 Stainless Steel	3½"	(Prefix)-3½-HDC
S6W 316 Stainless Steel	4"	(Prefix)-4-HDC
	5"	(Prefix)-5-HDC
	6"	(Prefix)-6-HDC
	7"	(Prefix)-7-HDC

Combination Hold Down Cover Clamp

Designed to secure flat and flanged covers with hold down feature.

Hardware not included.

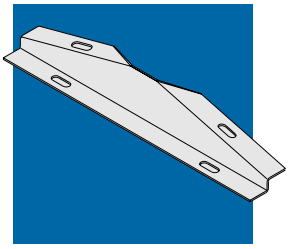


MATERIAL	WIDTH	CATALOG NO.
S4W	06"	S4W*PEC
304 Stainless	09"	S6W*PEC
S6W	12"	
316 Stainless	18"	
	24"	
	30"	
	36"	
	42"	

**Width*

Peaked End Cap

Used to transition between peaked covers and straight covers.



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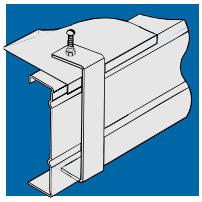
T&B® Cable Tray

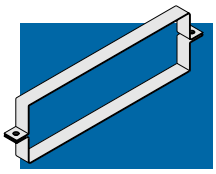
Stainless Steel Cable Tray – Accessories, Covers



Standard Cover Clamp

Rigid indoor cover clamp for flat and flanged covers.

MATERIAL PREFIX	SIDERAIL HEIGHT	CATALOG NO.
S4W 304 Stainless Steel	3½"	(Prefix)-*-SCC
S6W 316 Stainless Steel	4"	
	5"	
	6"	
	7"	

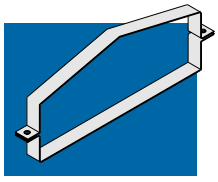


Heavy Duty Cover Clamp

Wrap around design offers added protection for rugged applications and outdoor conditions.

Hardware included.

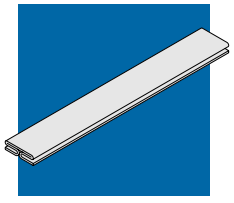
MATERIAL PREFIX	SIDERAIL HEIGHT	HEAVY DUTY CATALOG NO.	PEAKED COVER CATALOG NO.
S4W	3½"	(Prefix)-3½-(*)-HCC	(Prefix)-3½-(*)-HPC
304 Stainless Steel	4"	(Prefix)-4-(*)-HCC	(Prefix)-4-(*)-HPC
	5"	(Prefix)-5-(*)-HCC	(Prefix)-5-(*)-HPC
S6W	6"	(Prefix)-6-(*)-HCC	(Prefix)-6-(*)-HPC
316 Stainless Steel	7"	(Prefix)-7-(*)-HCC	(Prefix)-7-(*)-HPC



Heavy Peaked Cover Clamp

Wrap around design formed to fit peaked cover for outdoor applications.

Hardware included.



Cover Joint Strip

Strip used for joining covers.

MATERIAL PREFIX	CATALOG NO.
S4W 304 Stainless Steel	(Prefix)-(*)-SCS
S6W 316 Stainless Steel	

** Width of Tray*

Quantity of Standard Cover Clamps Required

Straight section (6 ft.)	4 pcs.
Straight section (12 ft.)	6 pcs.
Horizontal and Vertical Bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.

Note: When using the Heavy Duty Cover Clamp, only half the quantity of pieces are required.

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T&B® Cable Tray

Stainless Steel Cable Tray – Accessories, Splice Plates

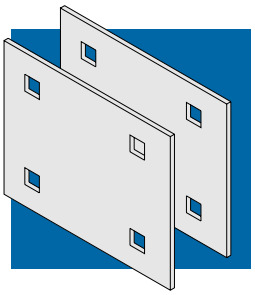
MATERIAL PREFIX	HEIGHT	CATALOG NO.
S4W	3½"	(Prefix)-3½-SSP
304 Stainless Steel	4"	(Prefix)-4-SSP
S6W	5"	(Prefix)-5-SSP
316 Stainless Steel	6"	(Prefix)-6-SSP
	7"	(Prefix)-7-SSP

Splice Plate

Easy alignment and installation.

Packaged in pairs with hardware.

Provided as standard with each item.

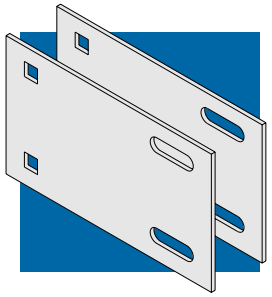


MATERIAL PREFIX	HEIGHT	CATALOG NO.
S4W	3½"	(Prefix)-3½-ESP
304 Stainless Steel	4"	(Prefix)-4-ESP
S6W	5"	(Prefix)-5-ESP
316 Stainless Steel	6"	(Prefix)-6-ESP
	7"	(Prefix)-7-ESP

Expansion Splice Plate

Allows for a 1" expansion or contraction of tray system. See page G30 for more information.

Packaged in pairs with hardware.

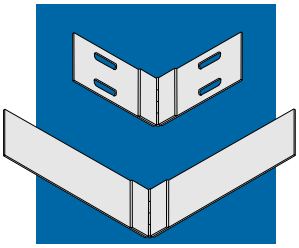


MATERIAL PREFIX	HEIGHT	CATALOG NO.
S4W	3½"	(Prefix)-3½-HSP
304 Stainless Steel	4"	(Prefix)-4-HSP
S6W	5"	(Prefix)-5-HSP
316 Stainless Steel	6"	(Prefix)-6-HSP
	7"	(Prefix)-7-HSP

Horizontal Adjustable Plate

Adjustable Hinge Plates provide maximum horizontal installation flexibility.

Packaged in pairs with hardware.

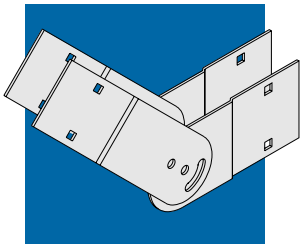


MATERIAL PREFIX	HEIGHT	CATALOG NO.
S4W	3½"	(Prefix)-3½-VSP
304 Stainless Steel	4"	(Prefix)-4-VSP
S6W	5"	(Prefix)-5-VSP
316 Stainless Steel	6"	(Prefix)-6-VSP
	7"	(Prefix)-7-VSP

Vertical Adjustable Plate

Hinged Vertical Plates provide maximum flexibility for changes in elevation.

Packaged in pairs with hardware.



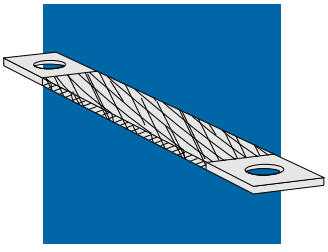
MATERIAL	RATING	CATALOG NO.
Copper	600A	CAW 600 BJ
Copper	1200A	CAW 1200 BJ
Copper	2000A	CAW 2000 BJ

Bonding Jumper

Use Bonding Jumpers at expansion splice plates if cable tray is used as a grounding conductor.

See NEC 318-7.

2000 Amp shown.



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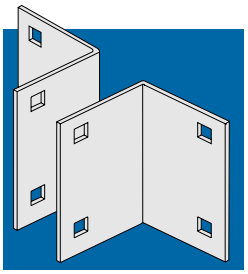
T&B® Cable Tray

Stainless Steel Cable Tray – Accessories, Splice Plates

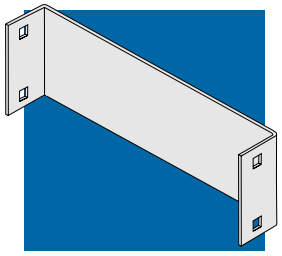


Box To Tray Plates

Designed to secure tray to electrical panels or boxes, walls or end supports.

Packaged in pairs with hardware.

MATERIAL PREFIX	HEIGHT	CATALOG NO.
S4W 304 Stainless Steel	3½"	(Prefix)-3½-BSP
	4"	(Prefix)-4-BSP
S6W 316 Stainless Steel	5"	(Prefix)-5-BSP
	6"	(Prefix)-6-BSP
	7"	(Prefix)-7-BSP



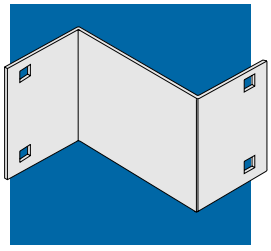
Closure End Plate

Provides closure for any tray end.

Hardware included.

MATERIAL PREFIX	HEIGHT	CATALOG NO.
S4W 304 Stainless Steel	3½"	(Prefix)-3½-(*)-CEP
	4"	(Prefix)-4-(*)-CEP
S6W 316 Stainless Steel	5"	(Prefix)-5-(*)-CEP
	6"	(Prefix)-6-(*)-CEP
	7"	(Prefix)-7-(*)-CEP

** Tray Width*



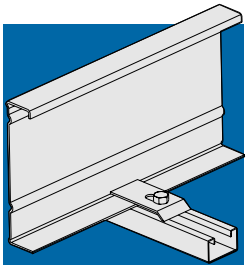
Reducing Splice Plate

Used in pairs to provide a straight reduction or used with a Standard Splice Plate for an offset reduction.

One item per package with hardware.

MATERIAL PREFIX	HEIGHT	CATALOG NO.
S4W 304 Stainless Steel	3½"	(Prefix)-3½-(*)-RSP
	4"	(Prefix)-4-(*)-RSP
S6W 316 Stainless Steel	5"	(Prefix)-5-(*)-RSP
	6"	(Prefix)-6-(*)-RSP
	7"	(Prefix)-7-(*)-RSP

**Note: For Offset Reduction: Insert width to be reduced*
For Straight Reduction: Insert ½ width to be reduced (2 required)



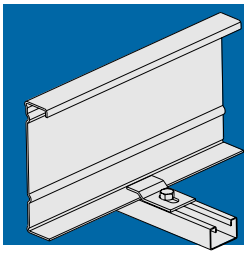
Standard Hold Down Clamp

Designed for most indoor installation.

Easy to use and install.

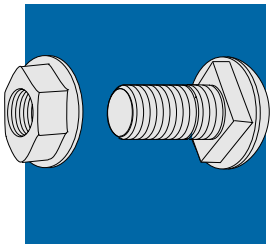
Order hardware separately.

MATERIAL PREFIX	CATALOG NO.
S4W 304 Stainless Steel	(Prefix)-SHC
S6W 316 Stainless Steel	



Combination Hold Down / Expansion Clamp

MATERIAL PREFIX	CATALOG NO.
S4W 304 Stainless Steel	(Prefix)-HEC
S6W 316 Stainless Steel	



Stainless Steel Tray Carriage Bolt

Square shoulder self-positioning carriage bolt with round smooth head.

304 Stainless Steel

316 Stainless Steel

DESCRIPTION	MATERIAL	CATALOG NO.
⅜" Carriage Bolt	316 Stainless	S6W-⅜-CB
⅜" Hex Nut	316 Stainless	S6W-⅜-HN
316 Stainless Hardware Kit	316 Stainless	S6W-⅜-HWK*
#10 x ½" Self Drilling Self Tapping Screw	316 Stainless	S6W-10-SCR

** Contains 8 nuts, 8 bolts, 8 lock washers*

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T&B® Cable Tray

Stainless Steel Cable Tray – Accessories, Cable Protection

Cable Protection

Drop-outs provide protection for cables during installation and after. The smooth radiused transition provides excellent protection of insulation and increases the bending radius of larger cables, reducing possible cable elongation.

MATERIAL PREFIX	CATALOG NO.
S4W 304 Stainless Steel	(Prefix)-(*)-DO
S6W 316 Stainless Steel	

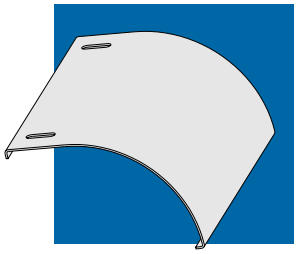
** Tray Width*

Drop-Out

Designed to provide a smooth radiused surface at any position on the tray or trough bottom.

Drop-Outs are easily attached using hardware provided.

Standard Radius = 4".



MATERIAL PREFIX	CATALOG NO.
S4W 304 Stainless	(Prefix)-(*)-(**)-WPS
S6W 316 Stainless	

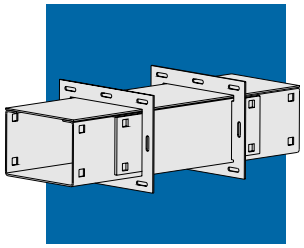
** Siderail Height*
*** Width*

Wall Penetration Sleeve

Designed to pass through walls and fire walls.

Hardware included.

Note: Not Fire Rated. Fire Stop not included.



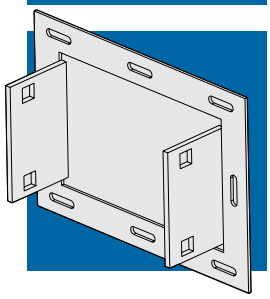
MATERIAL PREFIX	CATALOG NO.
S4W 304 Stainless	(Prefix)-(*)-(**)-FBP
S6W 316 Stainless	

** Siderail Height*
*** Width*

Frame Type Tray to Box Plate

Designed to secure tray to electrical enclosures and panels.

Hardware not included.



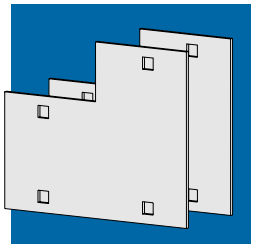
MATERIAL PREFIX	CATALOG NO.
S4W 304 Stainless	(Prefix)-(*)-(**)-SDS
S6W 316 Stainless	

** Siderail Height 1*
*** Siderail Height 2*

Step Down Splice Plate

Connects siderails of different heights.

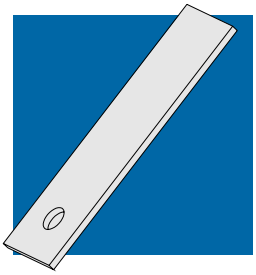
Hardware included.



MATERIAL	CATALOG NO.
Natural Nylon	ALW-NSP

Nylon Expansion Pad

Allows for thermal expansion and construction of cable trays over supports.



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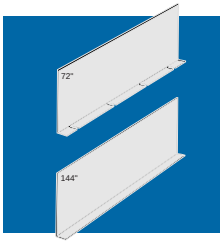
T&B® Cable Tray

Stainless Steel Cable Tray – Accessories, Barrier Strips

Barrier Strips

Barrier strips are used to separate cables within a tray. They are fastened into the tray with the Barrier Strip Clamp.

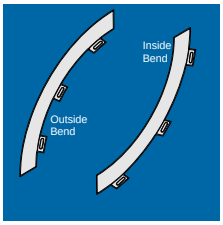


Barrier Strips

Barrier Strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware or Barrier Strip Clamps (sold separately). 72" barriers are flexible for use with horizontal fittings.

MATERIAL PREFIX	HEIGHT	CATALOG NO.
S4W 304 Stainless	3½"	(Prefix)-3½-SB-72 & 144
	4"	(Prefix)-4-SB-72 & 144
S6W 316 Stainless	5"	(Prefix)-5-SB-72 & 144
	6"	(Prefix)-6-SB-72 & 144
	7"	(Prefix)-7-SB-72 & 144

Note: 72" barrier provided with 3 S6W 10 SCR
149" barrier provided with 6 S6W 10 SCR

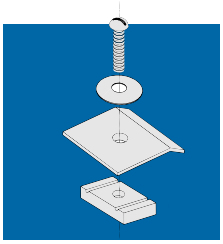


Inside/Outside Vertical Bend Barriers

Preformed to fit all standard steel vertical bends. Provided with hardware

MATERIAL PREFIX	INSIDE BEND CATALOG NO.	OUTSIDE BEND CATALOG NO.	SIDERAIL HEIGHT
S4W 304 Stainless	(Prefix)-3½-VIB-(*)-(+)	(Prefix)-3½-VOB-(*)-(+)	3½
	(Prefix)-4-VIB-(*)-(+)	(Prefix)-4-VOB-(*)-(+)	4
S6W 316 Stainless	(Prefix)-5-VIB-(*)-(+)	(Prefix)-5-VOB-(*)-(+)	5
	(Prefix)-6-VIB-(*)-(+)	(Prefix)-6-VOB-(*)-(+)	6
	(Prefix)-7-VIB-(*)-(+)	(Prefix)-7-VOB-(*)-(+)	7

(*) Insert bend degree (+) Insert bend radius
Note: 3½" is only available in 12" and 24" radius.

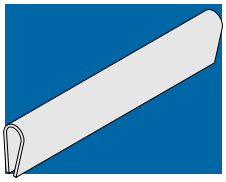


Barrier Strip Clamp

Barrier Strip Clamps mount Barrier Strips to Ladder rungs and Ventilated Trough bottoms.

Complete mounting hardware supplied.

MATERIAL PREFIX	CATALOG NO.
S4W 304 Stainless Steel	(Prefix)-BSC
S6W 316 Stainless Steel	



Barrier Strip Splice

Alignment splice for joining connecting Barrier Strips.

MATERIAL PREFIX	CATALOG NO.
Plastic	ALW-BSS

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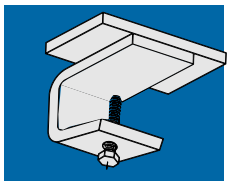
T&B® Cable Tray

Stainless Steel Cable Tray – Accessories

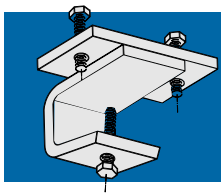


Cable Tray Guide

Expansion guide for single or double runs of cable tray.

No need to field drill of channel or I-beam.

MATERIAL	CATALOG NO.
316 Stainless Steel	S6W-CTG



Cable Tray Clamp

Clamps for single run of cable tray.

No need to field drill of channel or I-beam.

MATERIAL	CATALOG NO.
316 Stainless Steel	S6W-CTC

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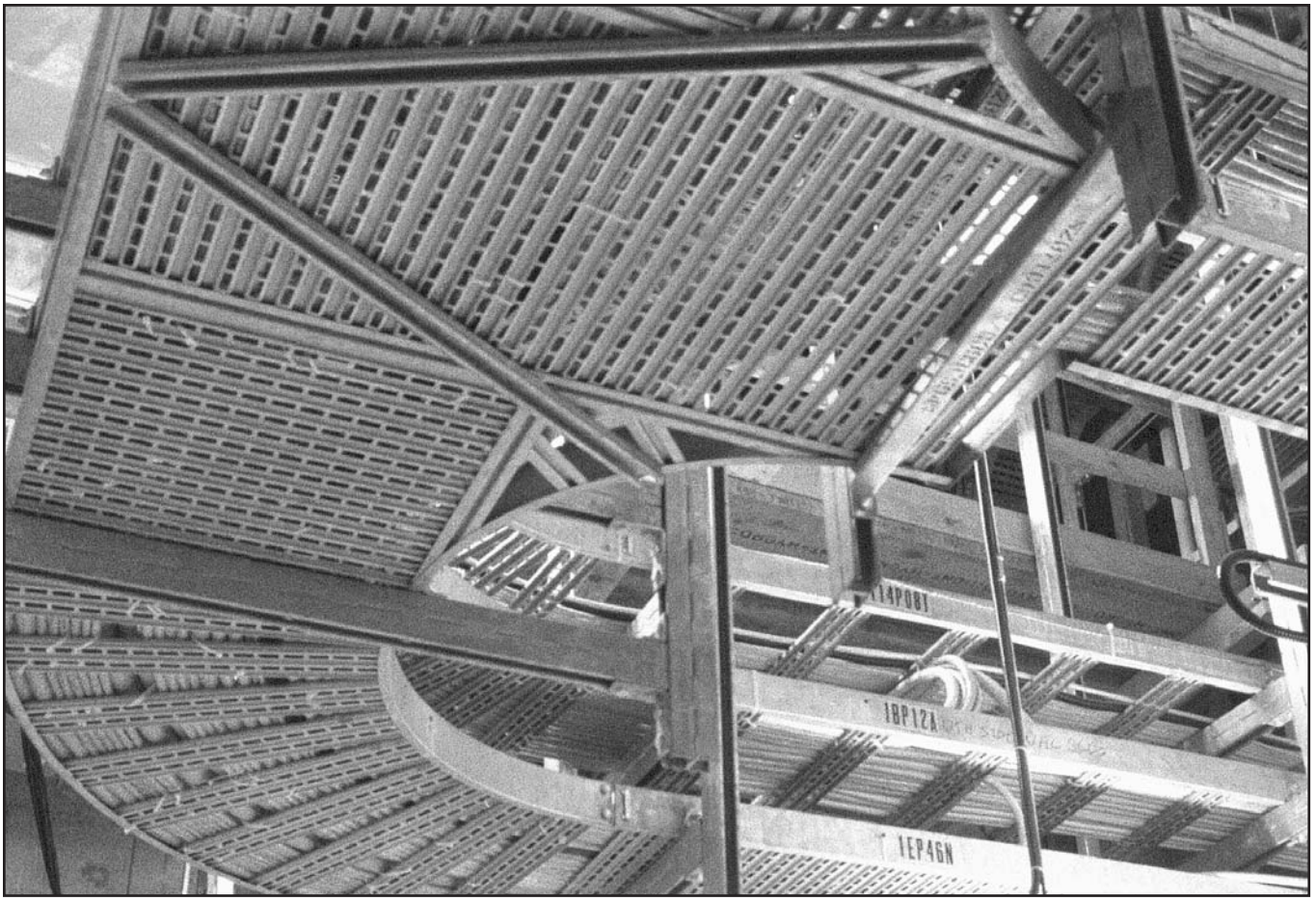
T&B® Cable Tray

One-Piece Cable Tray – T&B Cable Tray System



Features

- Available in Pre-Galvanized, Hot Dip Galvanized and Aluminum.
- Solid or ventilated bottom.
- Uses standard accessories of same material type as straight sections.

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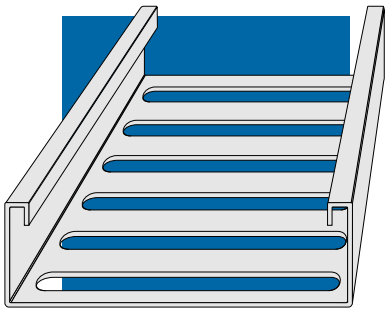
T&B® Cable Tray

Light Duty One-Piece Cable Tray – Aluminum, Pre-Galvanized, Hot Dip Galvanized – Index

Ventilated Trough

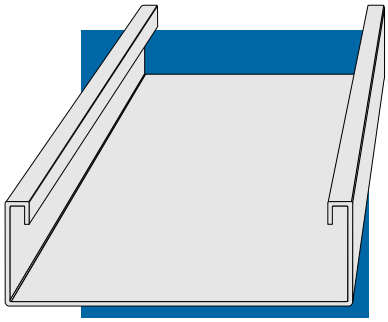
Formed from a pre-punched sheet to produce a One-Piece Ventilated Trough.



Ventilated Trough

Solid Trough

Fabricated from one sheet to form a continuous One-Piece tray design. All standard steel fittings are fully compatible with design.



Solid Trough

Fittings

Use fittings from appropriate pages listed below.

Index — *Aluminum, Pre-Galvanized, Hot Dip Galvanized*

2" One Piece Cable Tray G170
3" One Piece Cable Tray G171
6" One Piece Cable Tray G172
Accessories - Covers G173, G174
Accessories - Splice Plates.....G175, G176
Accessories - Cable Protection.....G177
Accessories - Installation Rollers.....G178

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T&B® Cable Tray

One-Piece Cable Tray – Aluminum, Pre-Galvanized, Hot Dip Galvanized Solid and Ventilated Straight Lengths

How to create part numbers

Thomas & Betts has created a numbering system based on the order of selection criteria.
For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page G11.

Methods:

1. Select the material best suited to your environment. Refer to technical section page G18.
2. Determine the series tray using the NEMA Load/Span Designations page G12, and Sizing Cable Tray page G31.
3. Select nominal depth and width of tray based on Cable Loading. See Sizing Cable Tray page G31.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in inches.

Example:

Straight Section Number Selection

(ALL3)-12-V-120

Material	Series	Siderail Depth	Width	Bottom Type	Length
AL • Aluminum PG • Pre-Galvanized HG • Hot Dip Galvanized S4 • 304 Stainless S6 • 316 Stainless	L • For Lighter Loads	2 3 6	06 • (6") 12 • (12") 18 • (18") 24 • (24")	V • Ventilated Trough S • Solid Trough	120 • (10ft)
Prefix					

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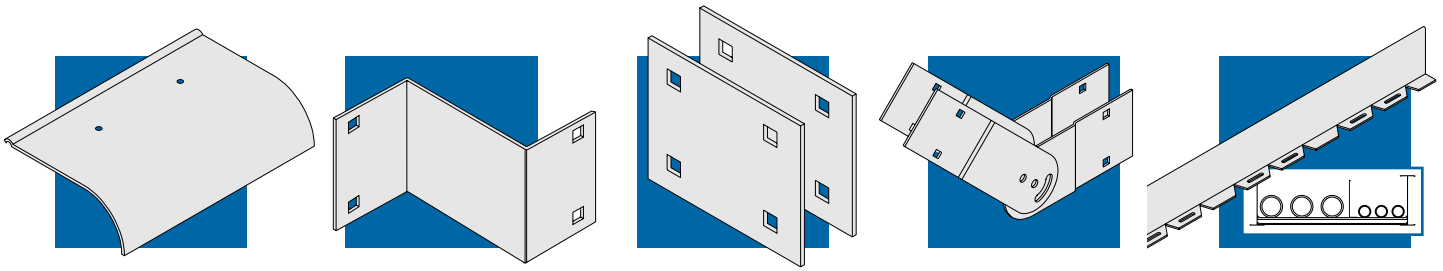
T&B® Cable Tray

Light Duty One-Piece Cable Tray – Aluminum, Pre-Galvanized, Hot Dip Galvanized Fittings and Accessories

Accessories



Light Duty One-Piece Tray uses standard accessories of same material type as straight sections.

Fittings Number Selection

PGL-2-06-S-HT-60-24

Prefix

Material	Siderail Depth	Width	Bottom Type	Fitting Type	Angle*	Radius**
AL • Aluminum	2 • (2")	06 • (6")	V • Ventilated Trough	HB • Horizontal Bend	30 • (30°)	12 • (2")
PG • Pre-Galvanized	3 • (3")	12 • (12")	S • Solid Trough	HT • Horizontal Tee	45 • (45°)	24 • (24")
HG • Hot Dip Galvanized	6 • (6")	18 • (18")		HX • Horizontal Cross	60 • (60°)	36 • (36")
S4 • 304 Stainless		24 • (24")		VI • Vertical Inside Bend	90 • (90°)	
S6 • 316 Stainless				VO • Vertical Outside Bend		
				HYR • Horizontal Wye Right		
				HYL • Horizontal Wye Left		
				RT • Horizontal Reduce Tee		
				ET • Horizontal Expand Tee		
				EX • Horizontal Expand Tee & Reduce Cross		
				HLR • Horizontal Left Reducer		
				HSR • Horizontal Straight Reducer		
				HRR • Horizontal Right Reducer		

** Angle required for HB, VI, & VO only*
*** Radius not required for HLR, HSR, & HRR*

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T&B® Cable Tray

2" One Piece Cable Tray – Aluminum, Pre-Galvanized, Hot Dip Galvanized, 304 & 316 Stainless – Solid and Vented Straight Lengths

One Piece Construction:

Design: Formed Channel
Nominal Height 2"
Loading Height 1⅞"
Available in solid or vented bottom

Accessories: One pair of splice plates supplied with hardware

Material: Pre-Galvanized G90 A653/A656M
Hot Dip Galvanized ASTM A123

Comply with: NEMA, NEC

SERIES		SUPPORT SPAN (FEET) 6	8	10
ALL2	Load (lbs./ft.)	69	39	25
	Deflection (in.)	0.382	0.730	1.000
	Deflection Factor	0.006	0.019	0.040

SERIES		SUPPORT SPAN (FEET) 6	8	10
PGL2 HGL2	Load (lbs./ft.)	69	39	25
	Deflection (in.)	0.382	0.730	1.000
	Deflection Factor	0.006	0.019	0.040

SERIES		SUPPORT SPAN (FEET) 6	8	10
S4L2 S6L2	Load (lbs./ft.)	69	39	25
	Deflection (in.)	0.382	0.730	1.000
	Deflection Factor	0.006	0.019	0.040

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T&B® Cable Tray

3" One Piece Cable Tray – Aluminum, Pre-Galvanized, Hot Dip Galvanized, 304 & 316 Stainless – Solid and Vented Straight Lengths

One Piece Construction:

Design: Formed Channel
Nominal Height 3½"
Loading Height 3⅛"
Available in solid or vented bottom

Accessories: One pair of splice plates supplied with hardware

Material: Pre-Galvanized ASTM A653/A653M
Hot Dip Galvanized ASTM A123

Comply with: NEMA, NEC

SERIES		SUPPORT SPAN (FEET) 6	8	10
ALL3	Load (lbs./ft.)	180	101	65
	Deflection (in.)	0.382	0.430	0.540
	Deflection Factor	0.002	0.004	0.008

SERIES		SUPPORT SPAN (FEET) 6	8	10
PGL3 HGL3	Load (lbs./ft.)	180	101	65
	Deflection (in.)	0.125	0.250	0.320
	Deflection Factor	0.001	0.002	0.005

SERIES		SUPPORT SPAN (FEET) 6	8	10
S4L3 S6L3	Load (lbs./ft.)	180	101	65
	Deflection (in.)	0.125	0.250	0.320
	Deflection Factor	0.001	0.002	0.005

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T&B® Cable Tray

6" One Piece Cable Tray – Aluminum, Pre-Galvanized, Hot Dip Galvanized, 304 & 316 Stainless – Solid and Vented Straight Lengths

One Piece Construction:

Design: Formed Channel
Nominal Height 6"
Loading Height 5⅝"
Available in solid or vented bottom

Accessories: One pair of splice plates supplied with hardware

Material: Pre-Galvanized G90 A653/A653M
Hot Dip Galvanized ASTM A123

Comply with: NEMA, NEC

SERIES		SUPPORT SPAN (FEET) 6	8	10
ALL6	Load (lbs./ft.)	180	101	65
	Deflection (in.)	0.082	0.128	0.160
	Deflection Factor	0.000	0.001	0.002

SERIES		SUPPORT SPAN (FEET) 6	8	10
PGL6 HGL6	Load (lbs./ft.)	180	101	65
	Deflection (in.)	0.125	0.250	0.320
	Deflection Factor	0.001	0.002	0.005

SERIES		SUPPORT SPAN (FEET) 6	8	10
S4L6 S6L6	Load (lbs./ft.)	180	101	65
	Deflection (in.)	0.125	0.250	0.320
	Deflection Factor	0.001	0.002	0.005

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T&B® Cable Tray

One Piece Cable Tray – Accessories, Covers

Fitting Cover Catalog Number Selection

(ALL)-12-SNC-HB 90-24

Material (Prefix)	Width	Cover Type	Fitting Type	Degree*	Radius
ALL Aluminum	06 • (6")	SNC • Solid Non-flanged Cover	HB • Horizontal Bend	30 • (30°)	12 • (12")
PGL Pre-Galvanized	12 • (12")	SFC • Solid Flanged Cover	HT • Horizontal Tee	45 • (45°)	24 • (24")
HGL Hot Dipped Galvanized	18 • (18")	VFC • Ventilated Flanged Cover	HX • Horizontal Cross	60 • (60°)	36 • (36")
S4L 304 Stainless	24 • (24")		VI • Vertical Inside Bend	90 • (90°)	
S6L 316 Stainless			VTU • Vertical Tee Down		
			HYR • Horizontal Wye Right		
			HYL • Horizontal Wye Left		

*Required for HB & VI only

(ALL-18-12)-SNC-RT-12

Material (Prefix)	Width	Width 2	Cover Type	Fitting Type	Radius*
ALL Aluminum	06 • (6")	06 • (6")	SNC • Solid Non-flanged Cover	RT • Horizontal Reduce Tee	12 • (12")
PGL Pre-Galvanized	12 • (12")	12 • (12")	SFC • Solid Flanged Cover	ET • Horizontal Expand Tee	24 • (24")
HGL Hot Dipped Galvanized	18 • (18")	18 • (18")	VFC • Ventilated Flanged Cover	EX • Horizontal Expand Tee & Reduce Cross	36 • (36")
S4L 304 Stainless	24 • (24")	24 • (24")		HSR • Horizontal Straight Reducer	
S6L 316 Stainless				HLR • Horizontal Left Reducer	
				HRR • Horizontal Right Reducer	

*Radius not required for HSR, HLR, HRR

(ALL-4-12)-SNC-VO-90-24

Material (Prefix)	Siderail Height	Width	Cover Type	Fitting Type	Degree*	Radius
ALL Aluminum	2 • (2")	06 • (6")	SNC • Solid Non-flanged Cover	VO • Vertical Outside Bend	30 • (30°)	12 • (12")
PGL Pre-Galvanized	3 • (3")	12 • (12")	SFC • Solid Flanged Cover	VTD • Vertical Tee Down	45 • (45°)	24 • (24")
HGL Hot Dipped Galvanized	6 • (6")	18 • (18")	VFC • Ventilated Flanged Cover		60 • (60°)	36 • (36")
S4L 304 Stainless		24 • (24")			90 • (90°)	
S6L 316 Stainless						

*Required for VO only

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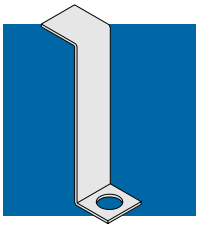
T&B® Cable Tray

One Piece Cable Tray – Accessories, Covers

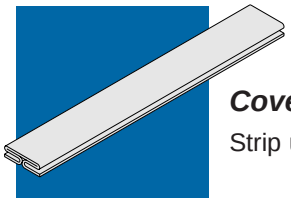


Combination Hold Down Cover Clamp

Designed to secure flat and flanged covers with hold down feature.

Hardware not included.

MATERIAL	SIDERAIL HEIGHT	CATALOG NO.
Aluminum	2"	(Prefix)-2-CCC
Pregalvanized	3"	(Prefix)-3-CCC
304 Stainless	6"	(Prefix)-6-CCC
316 Stainless		



Cover Joint Strip

Strip used for joining covers.

MATERIAL	CATALOG NO.
Aluminum	ALL-*-SCS
Pregalvanized	PGL-*-SCS
304 Stainless	S4L-*-SCS
316 Stainless	S6L-*-SCS

** Width of Tray*

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T&B® Cable Tray

One Piece Cable Tray – Accessories, Splice Plates

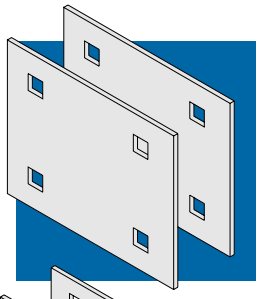
MATERIAL	HEIGHT	CATALOG NO.
ALL Aluminum	2"	(Prefix)-2-SSP
PGL Pregalvanized	3"	(Prefix)-3-SSP
HGL Hot Dipped Galvanized	6"	(Prefix)-6-SSP
S4L 304 Stainless		
S6L 316 Stainless		

Splice Plate

Designed for easy alignment and installation.

Packaged in pairs with zinc plated hardware.

Provided as standard with each item.

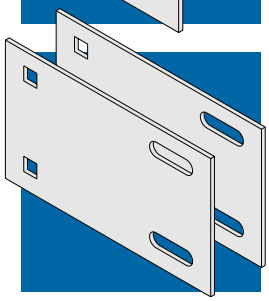


MATERIAL	HEIGHT	CATALOG NO.
ALL Aluminum	2"	(Prefix)-2-ESP
PGL Pregalvanized	3"	(Prefix)-3-ESP
HGL Hot Dipped Galvanized	6"	(Prefix)-6-ESP
S4L 304 Stainless		
S6L 316 Stainless		

Expansion Splice Plate

Allows for a 1" expansion or contraction of tray system. See page G30 for more information.

Packaged in pairs with hardware.

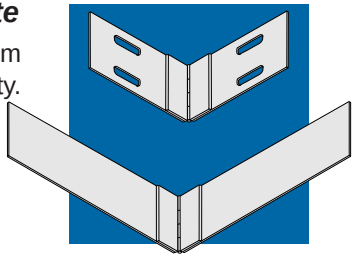


MATERIAL	HEIGHT	CATALOG NO.
ALL Aluminum	2"	(Prefix)-2-HSP
PGL Pregalvanized	3"	(Prefix)-3-HSP
HGL Hot Dipped Galvanized	6"	(Prefix)-6-HSP
S4L 304 Stainless		
S6L 316 Stainless		

Horizontal Adjustable Plate

Adjustable Hinge Plates provide maximum horizontal installation flexibility.

Furnished in pairs with hardware.

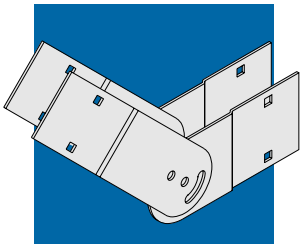


MATERIAL	HEIGHT	CATALOG NO.
ALL Aluminum	2"	(Prefix)-2-VSP
PGL Pregalvanized	3"	(Prefix)-3-VSP
HGL Hot Dipped Galvanized	6"	(Prefix)-6-VSP
S4L 304 Stainless		
S6L 316 Stainless		

Vertical Adjustable Plate

Hinged Vertical Plates provide maximum flexibility for changes in elevation.

Furnished in pairs with hardware.



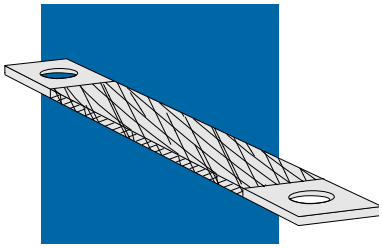
MATERIAL	RATING	CATALOG NO.
Copper	600A	CAW 600 BJ
Copper	1200A	CAW1200 BJ
Copper	2000A	CAW 2000 BJ

Bonding Jumper

Use Bonding Jumpers at expansion splice plates if cable tray is used as a grounding conductor.

See NEC 318-7.

2000 Amp shown



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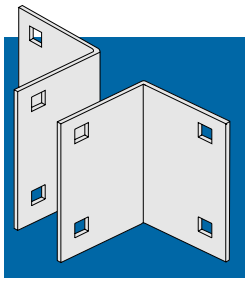
T&B® Cable Tray

One Piece Cable Tray – Accessories, Splice Plates

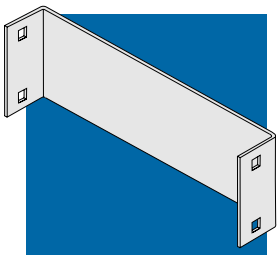


Box To Tray Plates

Designed to secure tray to electrical panels or boxes, walls or end supports.

Furnished in pairs with hardware.

MATERIAL	HEIGHT	CATALOG NO.
ALL Aluminum	2"	(Prefix)-2-BSP
PGL Pregalvanized	3"	(Prefix)-3-BSP
HGL Hot Dipped Galvanized	6"	(Prefix)-6-BSP
S4L 304 Stainless		
S6L 316 Stainless		



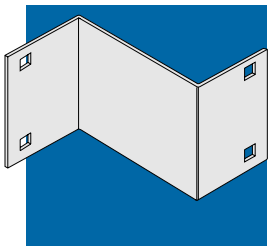
Closure End Plate

Provides closure for any tray end.

Packaged with hardware.

MATERIAL	HEIGHT	CATALOG NO.
ALL Aluminum	2"	(Prefix)-2-*-CEP
PGL Pregalvanized	3"	(Prefix)-3-*-CEP
HGL Hot Dipped Galvanized	6"	(Prefix)-6-*-CEP
S4L 304 Stainless		
S6L 316 Stainless		

** Tray Width*



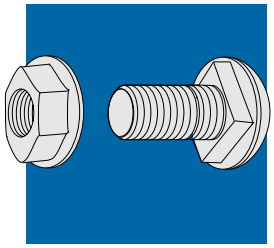
Reducing Splice Plate

Used in pairs to provide a straight reduction or used with a Standard Splice Plate for an offset reduction.

Packaged with hardware.

MATERIAL	HEIGHT	CATALOG NO.
ALL Aluminum	2"	(Prefix)-2-*-RSP
PGL Pregalvanized	3"	(Prefix)-3-*-RSP
HGL Hot Dipped Galvanized	6"	(Prefix)-6-*-RSP
S4L 304 Stainless		
S6L 316 Stainless		

Note: For offset reduction: insert width to be reduced
For straight reduction: insert ½ width to be reduced (2 required)



Aluminum and Steel Tray Carriage Bolt

Square shoulder self-positioning carriage bolt with round smooth head.

Packaged 100/box.

DESCRIPTION	MATERIAL	CATALOG NO.
¼" Carriage Bolt	Zinc Plated Steel	PGW-¼-CB
⅜" Carriage Bolt	Zinc Plated Steel	PGW-⅜-CB
¼" Hex Nut	Zinc Plated Steel	PGW-¼-HN
⅜" Hex Nut	Zinc Plated Steel	PGW-⅜-HN
⅜" Carriage Bolt	316 Stainless	S6W-⅜-CB
⅜" Hex Nut	316 Stainless	S6W-⅜-HN
316 Stainless Hardware Kit	316 Stainless	S6W-⅜-HWK*
#10 x ½" Self Drilling Self Tapping Screw	Zinc Plated	PGW-10-SCR

** Contains 8 nuts, 8 bolts, 8 lock washers*

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T&B® Cable Tray

One Piece Cable Tray – Accessories, Cable Protection

Cable Protection

Drop-outs provide protection for cables during installation and after. The smooth radiused transition provides excellent protection of insulation and increases the bending radius of larger cables, reducing possible cable elongation.

MATERIAL	CATALOG NO.
ALL Aluminum	(Prefix)-*-DO
PGL Pregalvanized	
HGL Hot Dipped Galvanized	
S4L 304 Stainless	
S6L 316 Stainless	

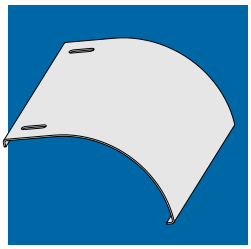
** Tray Width*

Drop-Out

Designed to provide a smooth radiused surface at any position on the tray or trough bottom.

Drop-Outs are easily attached using hardware provided.

Standard radius 4".



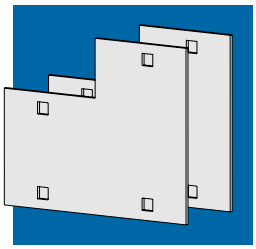
MATERIAL	CATALOG NO.
ALL Aluminum	(Prefix)-*-SDS
PGL Pregalvanized	
HGL Hot Dipped Galvanized	
S4L 304 Stainless	
S6L 316 Stainless	

** Siderail Height 1*
*** Siderail Height 2*

Step Down Splice Plate

Connects siderails of different heights.

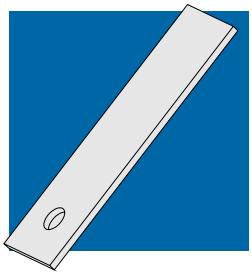
Hardware included.



MATERIAL	CATALOG NO.
Natural Nylon	ALW-NSP

Nylon Expansion Pad

Allows for thermal expansion and contraction of cable trays over supports.



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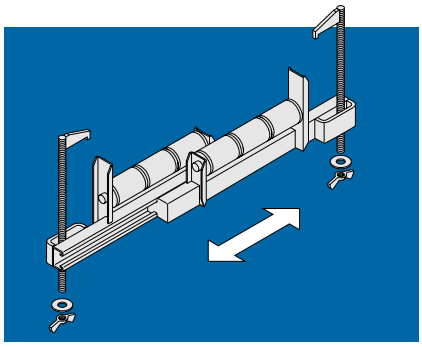
T&B® Cable Tray

Cable Installation – Accessories, Installation Rollers

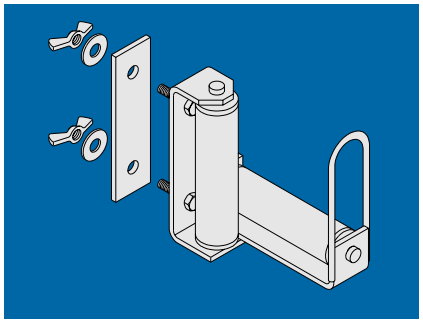


Straight Rollers

	FITS	CATALOG NO.
Corner	all profiles	VHR 04
Straight	all profiles 12" to 24" (30 cm to 60 cm)	HAR 1224
Straight	all profiles 18" to 36" (45cm to 90 cm)	HAR 1836

Why should rollers be used?

1. To reduce pulling stress on cables, avoiding undue fatigue or abrasions
2. Minimizes harmful 'shear' load being placed on cable trays
3. To reduce installation time



Corner Rollers

Why purchase the T&B Cable Roller System?

- Universal — fits virtually all tray systems
- Mounts from bottom of cable tray, eliminating the need for double handling cables and reducing possibility of cable damage
- Sideways telescopic adjustment allows rollers to accommodate virtually all tray widths
- Nylon bearings require no lubrication
- Independent rollers limit cable abrasion

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T&B® Cable Tray

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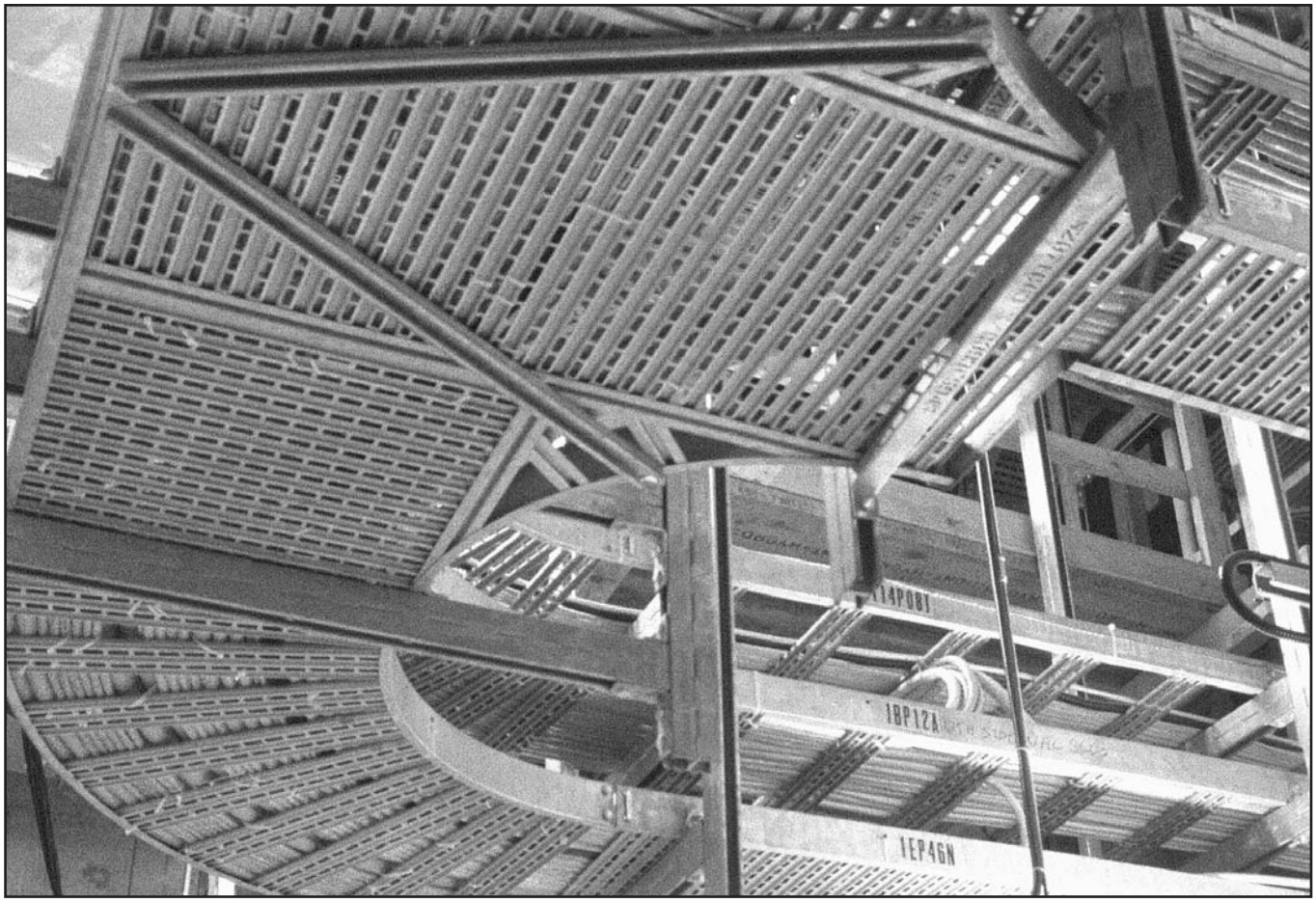
T&B® Cable Tray

3½" Electro-Magnetic Shielded Trough – T&B Cable Tray System



Features

- One-piece construction.
- Pre-Galvanized finish.
- Complete with flanged cover.
- Complete with wrap around cover clamps.
- Uses standard fittings and accessories.
- Solid covers available for all fittings.

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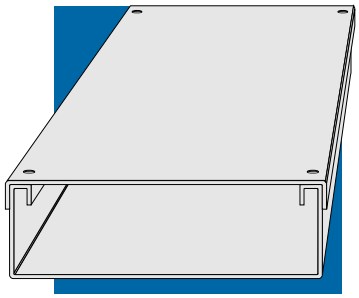
T&B® Cable Tray

3½" Electro-Magnetic Shielded Trough – Pre-Galvanized – Index

Solid Trough

Fabricated from one sheet to form a continuous One-Piece tray design.
All standard steel fittings are fully compatible with design.



Solid Trough

Fittings

Use fittings from appropriate pages listed below.

Index

3½" Electro-Magnetic Shielded Trough G182
Pre-Galvanized Numbering System G182
Pre-Galvanized Fittings & Accessories G183
Pre-Galvanized Solid Straight Lengths G184, G185

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T&B® Cable Tray

3½" Electro-Magnetic Shielded Trough – Pre-Galvanized – Numbering System

How to create part numbers

Thomas & Betts has created a numbering system based on the order of selection criteria.
For example, the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page G11.

Methods:

1. Select the material best suited to your environment or application. Refer to technical section page G18.
2. Determine the series or type of tray using the NEMA Load/Span Designations page G12, and Sizing Cable Tray page G31, or special needs.
3. Select nominal depth and width of tray based on Cable Loading. See Sizing Cable Tray page G31.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in inches.

Example:

Straight Section Number Selection

(PGS-3½)-12-S-144

Prefix					
Material	**Series**	**Nominal Depth**	**Width**	**Bottom Type**	**Length**
PG • Pre-Galvanized	S • Types	3½ • (3½")	06 • (6") 12 • (12") 18 • (18") 24 • (24")	S • Solid Trough	120 • (10ft)

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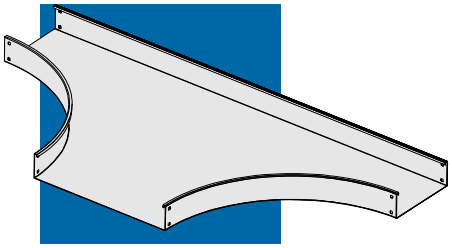
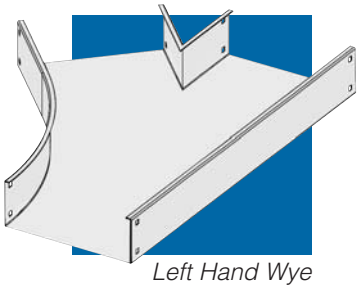
T&B® Cable Tray

3½" Electro-Magnetic Shielded Trough – Pre-Galvanized – Fittings and Accessories

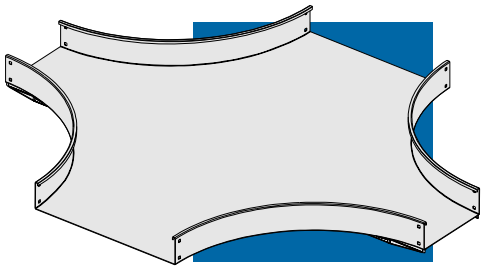
Fittings



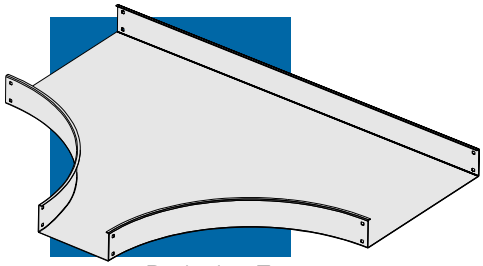
Expanding Tee



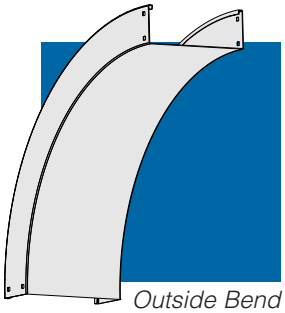
Left Hand Wye



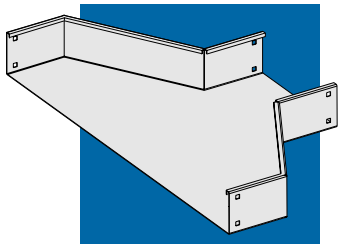
Horizontal Expanding / Reducing Cross



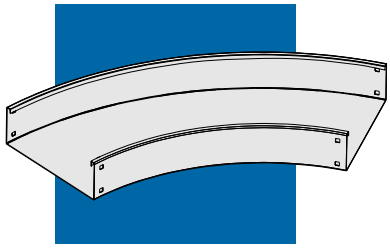
Reducing Tee



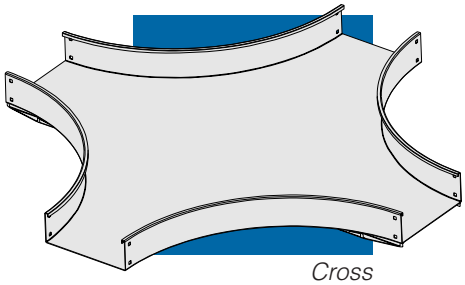
Outside Bend



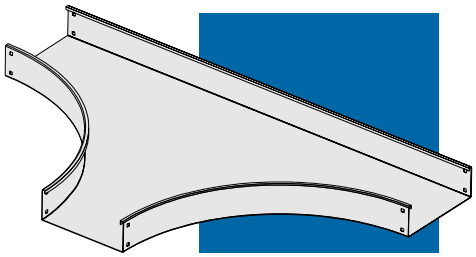
Offset Reducer-Straight



60° Horizontal Bend

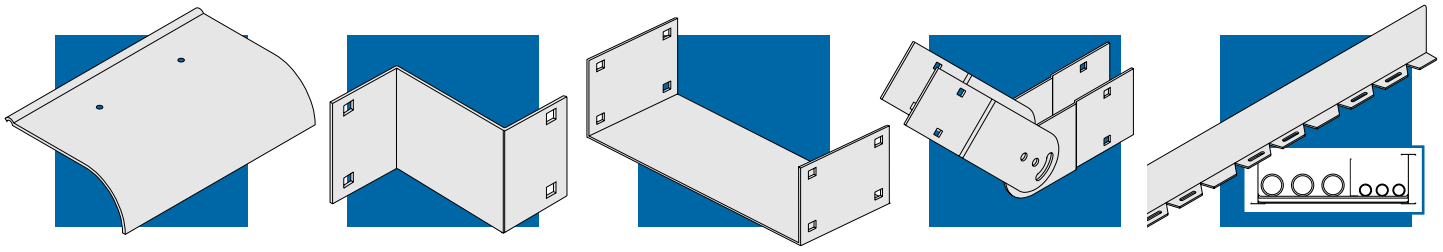


Cross



Tee

Accessories



Electro-Magnetic Trough uses standard 3½" solid fittings. Order cover and connector shield separately.

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T&B® Cable Tray

3½" Electro-Magnetic Shielded Trough – Pre-Galvanized – Solid Straight Lengths

Application: Type S Electro-Magnetic Shielded Trough shields low level control circuits against interference of electrical and magnetic fields generated by power systems. Electrical fields of 60Hz to 100Hz should be attenuated with 85dB minimum, and electromagnetic attenuation should increase 10dB to 85dB between 60Hz and 100Hz.

Construction: Fabricated from Pre-Galvanized sheet steel into a continuous one-piece trough. Trough is complete with cover, wrap-around connector, connector shields and necessary hardware.

Accessories: Cover, wrap-around connector, connector shield and hardware.

Material: Pre-Galvanized Steel. G90ASTM A653/A653M

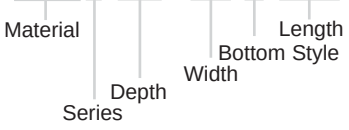
Comply with: NEMA, NEC, UL, CSA*

SERIES		SUPPORT SPAN (FEET) 2	4	6	8	10	12
PGS-3½	Load (lbs./ft.)	1525	406	181	102	65	45
	Deflection (in.)	0.017	0.067	0.151	0.269	0.420	0.604
	Deflection Factor	0.00001	0.0002	0.001	0.003	0.006	0.013

Continuous spans may reduce deflection by as much as 50%.

**CSA load rating for information only.*

Part Numbering System



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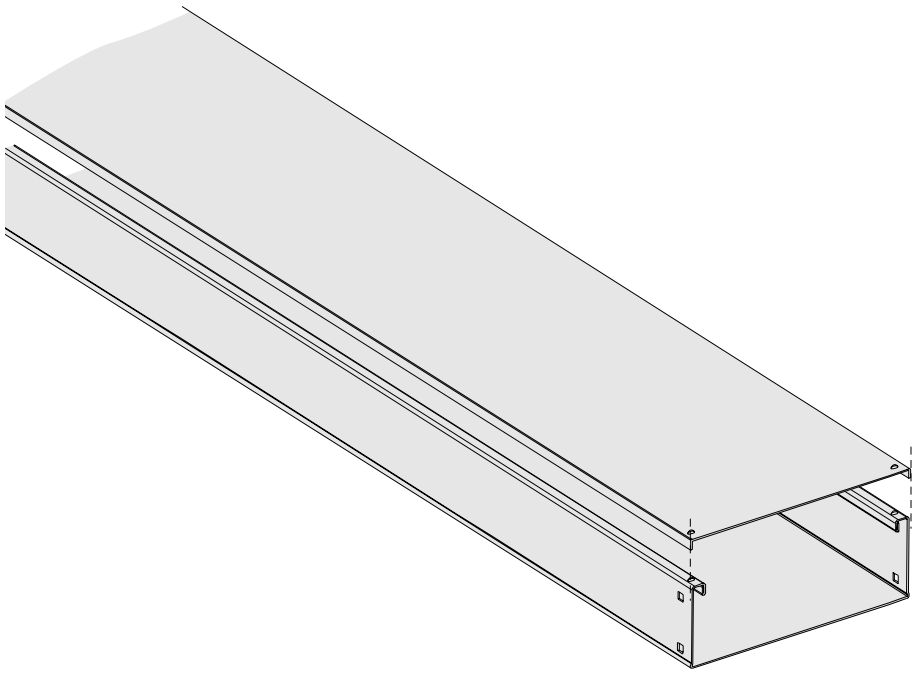
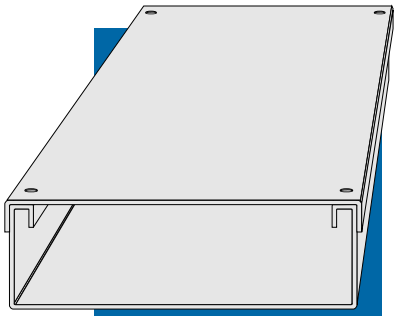
T&B® Cable Tray

3½" Electro-Magnetic Shielded Trough – Pre-Galvanized – Solid Straight Lengths





Solid Trough

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	NEMA CLASSIFICATIONS	CSA LOAD RATING*
PGS-3½		Ix = 5.028 Sx = 2.250	8A, 8B, 8C	C1

Selection Guide

Inside Tray Widths:

6"=06, 12"=12, 18"=18, 24"=24

Tray Lengths:

120"=120(10 ft.)

Bottom Styles:

S– Solid

Deflection factor: for lighter loads deflection at any length can be calculated by multiplying the load by the deflection factor.

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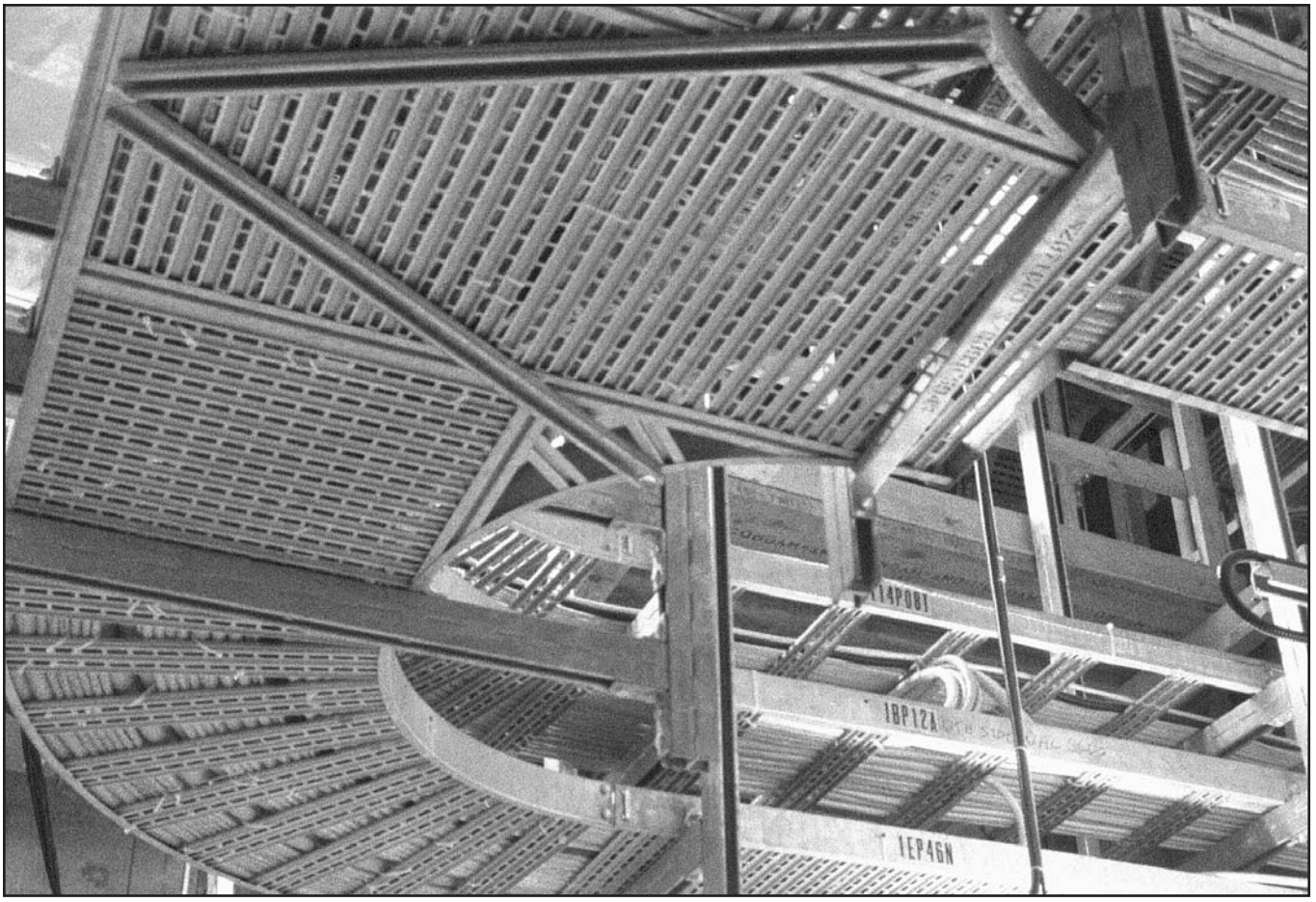
T&B® Cable Tray

Cable Channel – T&B Cable Tray System



Features

- Available in Aluminum, Pre-Galvanized, Hot-Dipped Galvanized, and Stainless Steel.
- Solid and Ventilated.
- Exclusive Ty-Rap® cable tie slots
- Complete line of fittings and accessories.

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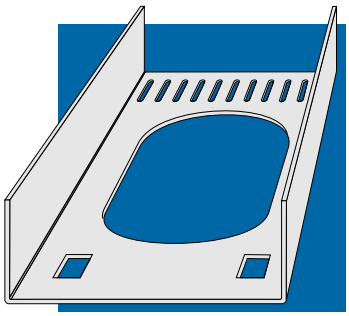
T&B® Cable Tray

Cable Channel – Straight Sections – Solid and Ventilated

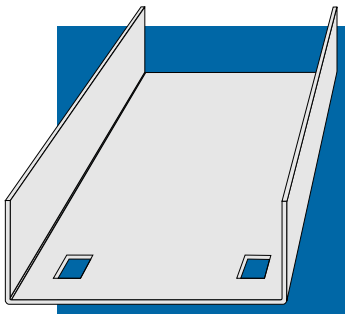
Cable Channel

Thomas & Betts offers cable channel in solid or ventilated straight sections. Ventilated channel has burr free oblong punched holes for easy access. Ty-Rap® slots are provided between each opening for securing of cable.

Horizontal and vertical fittings are available to complete your system layout. Channel accessories and supports provide solutions for your installation requirements.



Ventilated Channel



Solid Channel

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Horizontal Bends 45°, 30° G193
Horizontal Tee, Cross G194
Vertical Bend 90° G195
Vertical Bend 60° G196
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Covers.....G199
Accessories.....G200-G202
Tray-Pro™ Features.....G203

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T&B® Cable Tray

Cable Channel – Straight Sections – Solid and Ventilated

How to create part numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page G11 in the technical section.

Methods:

1. Select the material best suited to your environment. Refer to technical section page G18.
2. Select nominal width of tray based on Cable Loading. See Sizing Cable Tray page G31.
3. Select the bottom type based on cables and spacing requirements.
4. The last number is the length of the cable tray in inches.

Example:

Straight Section Number Selection

(ALT)-C-04-S-144

Prefix	Series	Type	Width	Bottom Style	Length*
Material	**Series**	**Type**	**Width**	**Bottom Style**	**Length***
AL • Aluminum	T • Cable Channel	C • Straight	03 • (3")	S • Solid Trough	144 • 144"
PG • Pre-Galvanized			04 • (4")	V • Ventilated Trough	288 • 288"
HG • Hot Dip Galvanized			06 • (6")		
S4 • 304 Stainless					
S6 • 316 Stainless					

**288" available in Aluminum only.*

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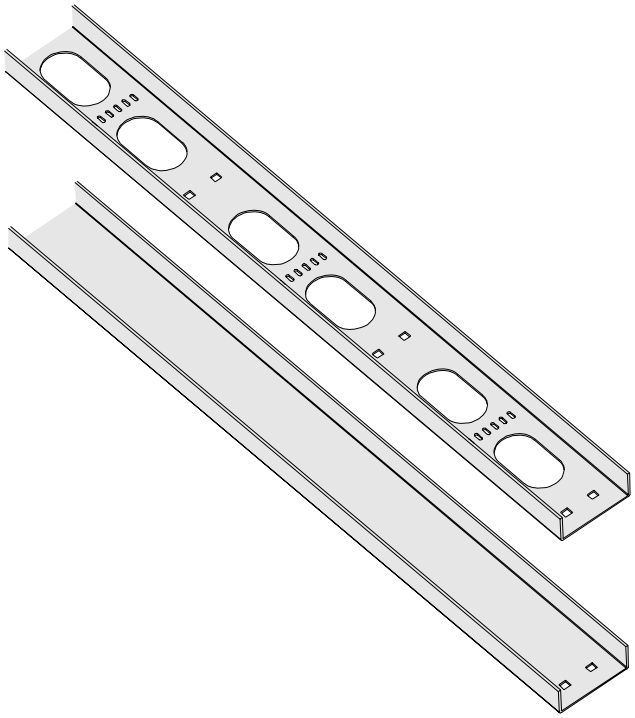
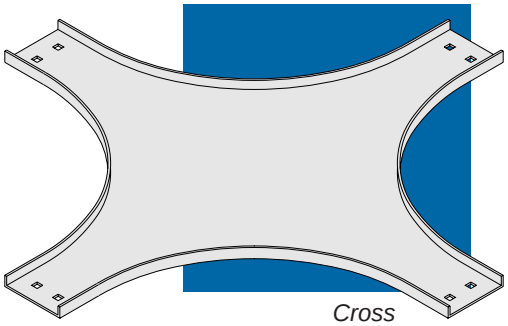
T&B® Cable Tray

Cable Channel – Fittings – Solid





Cross

Fittings Number Selection

(ALT)-F-06-S-HB-45-12

Prefix

Fitting Material	Series	Type	Width	Bottom Style	Fitting Type	Degree*	Radius
AL • Aluminum PG • Pre-Galvanized HG • Hot Dip Galvanized S4 • 304 Stainless S6 • 316 Stainless	T • Cable Channel	F • Fitting	03 • (3") 04 • (4") 06 • (6")	S • Sold Trough	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VO • Vertical Outside Bend VI • Vertical Inside Bend	30 • 30° 45 • 45° 60 • 60° 90 • 90°	12 • 12" 24 • 24" 36 • 36" 48 • 48"

**Required for HB, VI, & VO only*

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T&B® Cable Tray

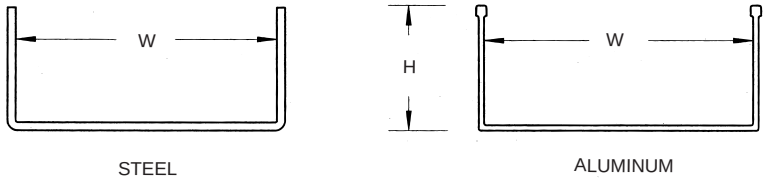
Cable Channel – Straight Sections – Solid and Ventilated

Solid: Steel – 16 Gauge Roll Formed Steel
Aluminum - .083" Extruded

Ventilated: Pre-punched burr free oblong holes with Ty-Rap® slots between each opening.

Accessories: One-connector assembly complete with hardware.

Material: Aluminum – 6063-T6
Pre-Galvanized
Hot Dip Galvanized
304 Stainless Steel
316 Stainless Steel



ALUMINUM SOLID	CHANNEL WIDTH (W)	DEPTH (H)		SUPPORT SPAN (FEET) 2	4	6	8	10	12
ALT-C	3"	1⅜"	Load (lbs./ft.)	362.5	90.6	40.3	22.7	14.5	10.1
			Deflection (in.)	0.083	0.330	0.743	1.322	2.065	2.973
	4"	1⅝"	Load (lbs./ft.)	580.0	145.0	64.4	36.3	23.2	16.1
			Deflection (in.)	0.065	0.260	0.585	1.041	1.626	2.342
	6"	1¾"	Load (lbs./ft.)	607.5	151.9	67.5	38.0	24.3	16.9
			Deflection (in.)	0.061	0.244	0.550	0.977	1.527	2.199

ALUMINUM VENTILATED	CHANNEL WIDTH (W)	DEPTH (H)		SUPPORT SPAN (FEET) 2	4	6	8	10	12
ALT-C	3"	1⅜"	Load (lbs./ft.)	300.0	75.0	33.3	18.8	12.0	8.3
			Deflection (in.)	0.100	0.400	0.900	1.600	2.500	3.600
	4"	1⅝"	Load (lbs./ft.)	525.0	131.3	58.3	32.8	21.0	14.6
			Deflection (in.)	0.074	0.295	0.664	1.181	1.846	2.658
	6"	1¾"	Load (lbs./ft.)	580.0	145.0	64.4	36.3	23.2	16.1
			Deflection (in.)	0.065	0.261	0.587	1.044	1.631	2.349

STEEL SOLID	CHANNEL WIDTH (W)	DEPTH (H)		SUPPORT SPAN (FEET) 2	4	6	8	10	12
PGT-C HGT-C S4T-C S6T-C	3"	1⅜"	Load (lbs./ft.)	252.0	63.0	28.0	15.8	10.1	7.0
			Deflection (in.)	0.034	0.134	0.302	0.538	0.840	1.210
	4"	1⅝"	Load (lbs./ft.)	408.0	102.0	45.3	25.5	16.3	11.3
			Deflection (in.)	0.026	0.105	0.237	0.421	0.658	0.948
	6"	1¾"	Load (lbs./ft.)	432.0	108.0	48.0	27.0	17.3	12.0
			Deflection (in.)	0.024	0.096	0.217	0.386	0.603	0.868

STEEL VENTILATED	CHANNEL WIDTH (W)	DEPTH (H)		SUPPORT SPAN (FEET) 2	4	6	8	10	12
PGT-C HGT-C S4T-C S6T-C	3"	1⅜"	Load (lbs./ft.)	207.0	51.8	23.0	12.9	8.3	5.8
			Deflection (in.)	0.041	0.163	0.366	0.652	1.018	1.466
	4"	1⅝"	Load (lbs./ft.)	363.0	90.8	40.3	22.7	14.5	10.1
			Deflection (in.)	0.030	0.119	0.269	0.477	0.746	1.074
	6"	1¾"	Load (lbs./ft.)	405.0	101.3	45.0	25.3	16.2	11.3
			Deflection (in.)	0.027	0.106	0.239	0.425	0.664	0.956

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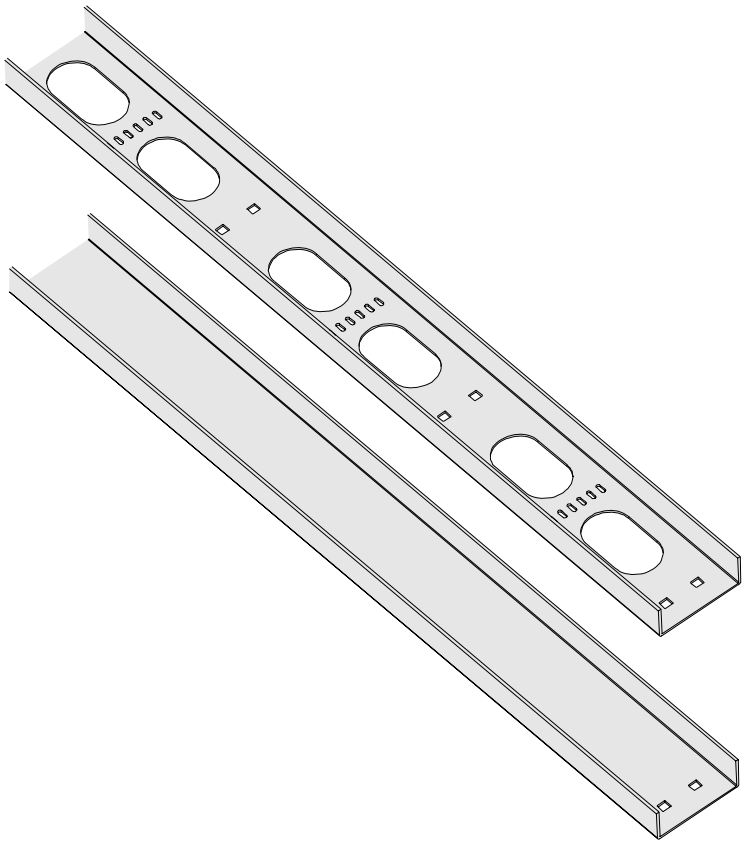
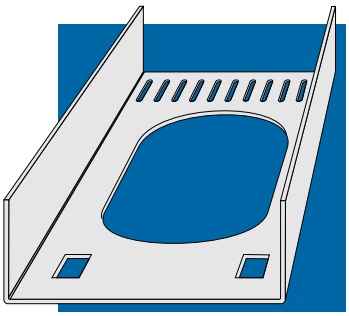
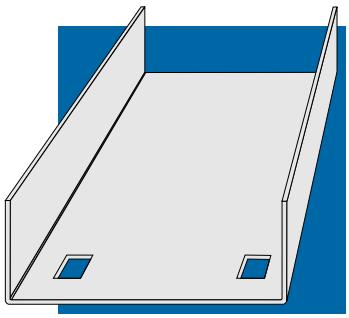
T&B® Cable Tray

Cable Channel – Straight Sections – Solid and Ventilated

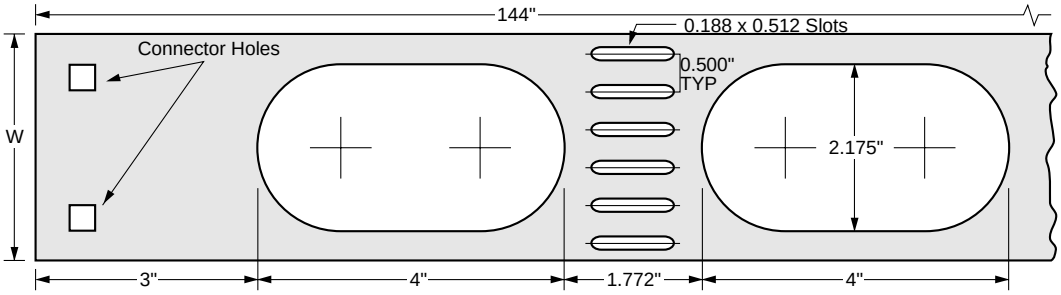




Ventilated Channel



Solid Channel



Bottom View of Ventilated Channel Tray

Part Numbering System

(ALT)-C-04-S-144

Material
Series
Type
Width
Bottom Style
Length

Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

Inside Channel Width: 03=3",04=4", 06=6"

Bottom Styles:
S – Solid V – Ventilated

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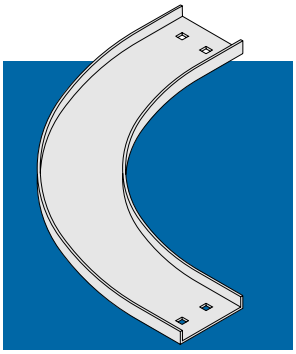
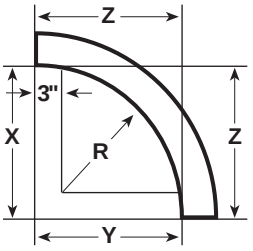
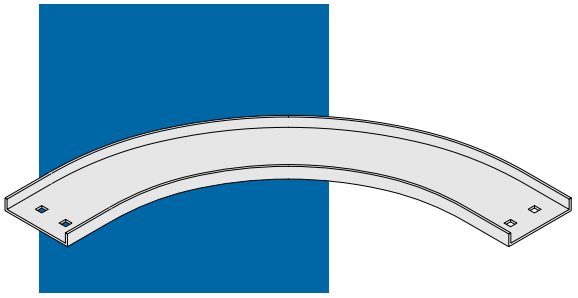
T&B® Cable Tray

Cable Channel – Horizontal Bends – 90° / 60° Solid

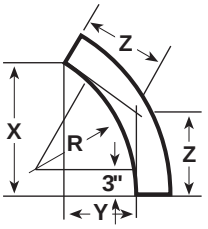


90° Horizontal Bend





60° Horizontal Bend



Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

Inside Channel Width: 03=3",04=4",06=6"

Bottom Styles:
S – Solid

Part Numbering System

(ALT)-F-06-S-HB90-24

Fitting Material
Series
Width
Bottom Style
Fitting Type
Angle
Radius

90° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-HB90-12	16½	16½	16½
	4	(*)-F 04-S-HB90-12	17	17	17
	6	(*)-F 06-S-HB90-12	18	18	18
24	3	(*)-F 03-S-HB90-24	28½	28½	28½
	4	(*)-F 04-S-HB90-24	29	29	29
	6	(*)-F 06-S-HB90-24	30	30	30
36	3	(*)-F 03-S-HB90-36	40½	40½	40½
	4	(*)-F 04-S-HB90-36	41	41	41
	6	(*)-F 06-S-HB90-36	42	42	42
48	3	(*)-F 03-S-HB90-48	52½	52½	52½
	4	(*)-F 04-S-HB90-48	53	53	53
	6	(*)-F 06-S-HB90-48	54	54	54

60° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-HB60-12	16 3/16	9 3/8	10 13/16
	4	(*)-F 04-S-HB60-12	16 5/8	9 5/8	11 1/16
	6	(*)-F 06-S-HB60-12	17½	10 1/8	11 11/16
24	3	(*)-F 03-S-HB60-24	26 9/16	15 3/8	17¾
	4	(*)-F 04-S-HB60-24	27	15 5/8	18
	6	(*)-F 06-S-HB60-24	27 7/8	16 1/8	18 9/16
36	3	(*)-F 03-S-HB60-36	37	21 3/8	24 5/8
	4	(*)-F 04-S-HB60-36	37 7/16	21 5/8	24 15/16
	6	(*)-F 06-S-HB60-36	38¼	22 1/8	25½
48	3	(*)-F 03-S-HB60-48	47 3/8	27 3/8	31 9/16
	4	(*)-F 04-S-HB60-48	47 13/16	27 5/8	31 7/8
	6	(*)-F 06-S-HB60-48	48 1/16	28 1/8	32 7/16

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T&B® Cable Tray

Cable Channel – Horizontal Bends – 45° / 30° Solid

Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

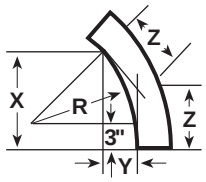
Inside Channel Width: 03=3",04=4",06=6"

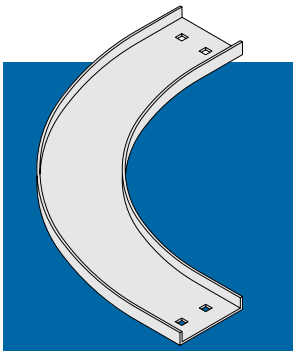
Bottom Styles:
S – Solid

Part Numbering System

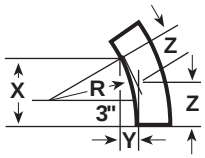
(ALT)-F-03-S-HB45-36

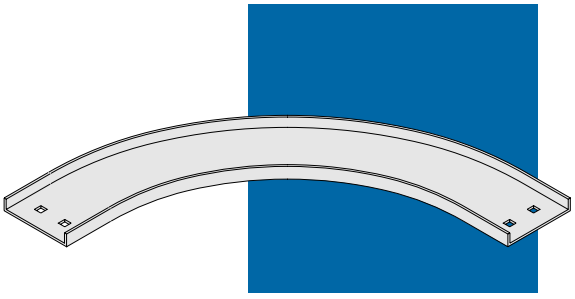
Fitting Material
Series
Width
Bottom Style
Fitting Type
Angle
Radius





45° Horizontal Bend





30° Horizontal Bend

45° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-HB45-12	14 11/16	6 1/16	8 9/16
	4	(*)-F 04-S-HB45-12	15	6 1/4	8 13/16
	6	(*)-F 06-S-HB45-12	15 3/4	6 1/2	9 3/16
24	3	(*)-F 03-S-HB45-24	23 1/8	9 9/16	13 3/16
	4	(*)-F 04-S-HB45-24	23 1/2	9 3/4	13 3/4
	6	(*)-F 06-S-HB45-24	24 3/16	10	14 3/16
36	3	(*)-F 03-S-HB45-36	31 5/8	13 1/8	18 3/16
	4	(*)-F 04-S-HB45-36	32	13 1/4	18 3/4
	6	(*)-F 06-S-HB45-36	32 11/16	13 3/16	19 1/8
48	3	(*)-F 03-S-HB45-48	40 1/8	16 5/8	23 1/2
	4	(*)-F 04-S-HB45-48	40 1/2	16 3/4	23 11/16
	6	(*)-F 06-S-HB45-48	41 3/16	17 1/16	24 1/8

30° HORIZONTAL BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-HB30-12	12 3/8	3 5/16	6 5/8
	4	(*)-F 04-S-HB30-12	12 5/8	3 3/8	6 3/4
	6	(*)-F 06-S-HB30-12	13 1/8	3 1/2	7
24	3	(*)-F 03-S-HB30-24	18 3/8	4 15/16	9 13/16
	4	(*)-F 04-S-HB30-24	18 5/8	5	9 15/16
	6	(*)-F 06-S-HB30-24	19 1/8	5 1/8	10 1/4
36	3	(*)-F 03-S-HB30-36	24 3/8	6 1/2	13 1/16
	4	(*)-F 04-S-HB30-36	24 5/8	6 9/16	13 3/16
	6	(*)-F 06-S-HB30-36	25 1/8	6 3/4	13 7/16
48	3	(*)-F 03-S-HB30-48	30 3/8	8 1/8	16 1/4
	4	(*)-F 04-S-HB30-48	30 5/8	8 3/16	16 3/8
	6	(*)-F 06-S-HB30-48	31 1/8	8 5/16	16 11/16

(*) Material Prefix from Selection Guide above.

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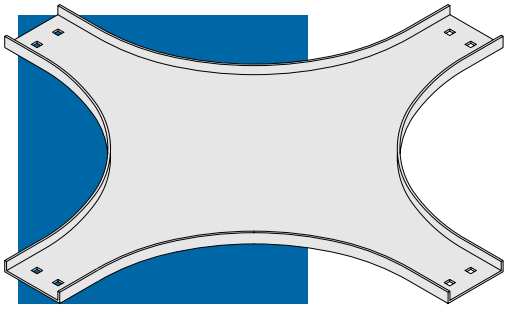
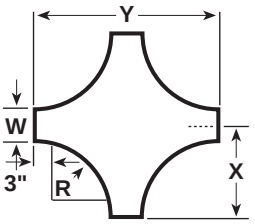
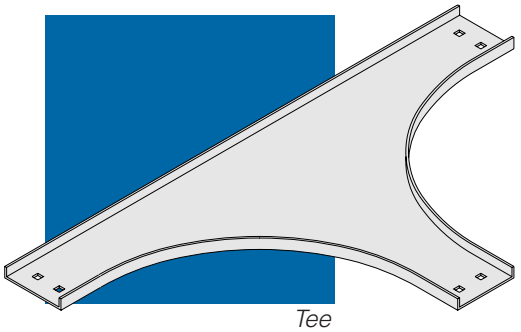
T&B® Cable Tray

Cable Channel – Horizontal Cross and Tee – Solid

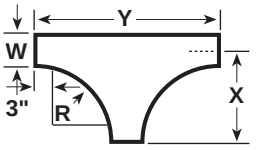


Cross





Tee



Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

Inside Channel Width: 03=3",04=4",06=6"

Bottom Styles:
S – Solid

Part Numbering System

(S4T)-F-04-S-HT-24

Fitting Material
Series
Width
Bottom Style
Fitting Type
Radius

CROSS HORIZONTAL BEND

RADIUS	WIDTH		DIMENSIONS	
R		CATALOG NO.	X	Y
12	3	(*)-F 03-S-HX-12	16½	33
	4	(*)-F 04-S-HX-12	17	34
	6	(*)-F 06-S-HX-12	18	36
24	3	(*)-F 03-S-HX-24	28½	57
	4	(*)-F 04-S-HX-24	29	58
	6	(*)-F 06-S-HX-24	30	60
36	3	(*)-F 03-S-HX-36	40½	81
	4	(*)-F 04-S-HX-36	41	82
	6	(*)-F 06-S-HX-36	42	84
48	3	(*)-F 03-S-HX-48	52½	105
	4	(*)-F 04-S-HX-48	53	106
	6	(*)-F 06-S-HX-48	54	108

TEE HORIZONTAL BEND

RADIUS	WIDTH		DIMENSIONS	
R		CATALOG NO.	X	Y
12	3	(*)-F 03-S-HT-12	16½	33
	4	(*)-F 04-S-HT-12	17	34
	6	(*)-F 06-S-HT-12	18	36
24	3	(*)-F 03-S-HT-24	28½	57
	4	(*)-F 04-S-HT-24	29	58
	6	(*)-F 06-S-HT-24	30	60
36	3	(*)-F 03-S-HT-36	40½	81
	4	(*)-F 04-S-HT-36	41	82
	6	(*)-F 06-S-HT-36	42	84
48	3	(*)-F 03-S-HT-48	52½	105
	4	(*)-F 04-S-HT-48	53	106
	6	(*)-F 06-S-HT-48	54	108

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T&B® Cable Tray

Cable Channel – Vertical Bends – 90° Outside and Inside

Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

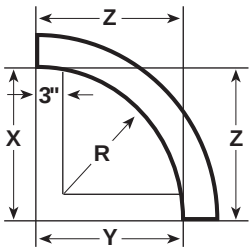
Inside Channel Width: 03=3",04=4",06=6"

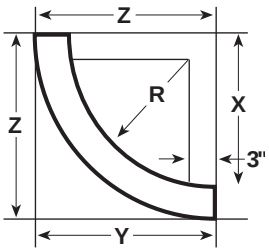
Bottom Styles:
S – Solid

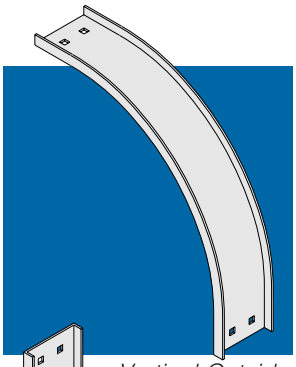
Part Numbering System

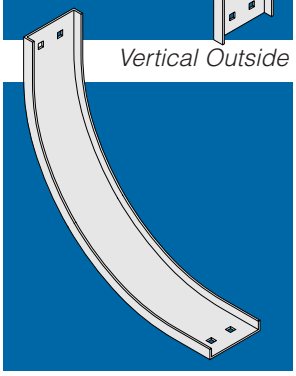
(PGT)-F-06-S-VO90-24

Fitting Material
Series
Width
Bottom Style
Fitting Type
Angle
Radius






Vertical Outside


Vertical Inside

90° VERTICAL OUTSIDE BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-VO90-12	15	15	11½
	4	(*)-F 04-S-VO90-12	15	15	15
	6	(*)-F 06-S-VO90-12	15	15	15
24	3	(*)-F 03-S-VO90-24	27	27	20
	4	(*)-F 04-S-VO90-24	27	27	27
	6	(*)-F 06-S-VO90-24	27	27	27
36	3	(*)-F 03-S-VO90-36	39	39	28 7/16
	4	(*)-F 04-S-VO90-36	39	39	39
	6	(*)-F 06-S-VO90-36	39	39	39
48	3	(*)-F 03-S-VO90-48	51	51	36 15/16
	4	(*)-F 04-S-VO90-48	51	51	51
	6	(*)-F 06-S-VO90-48	51	51	51

90° VERTICAL INSIDE BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-VI90-12	16½	16½	11½
	4	(*)-F 04-S-VI90-12	16⅞	16⅞	15
	6	(*)-F 06-S-VI90-12	16⅞	16⅞	15
24	3	(*)-F 03-S-VI90-24	28½	28½	20
	4	(*)-F 04-S-VI90-24	28⅞	28⅞	27
	6	(*)-F 06-S-VI90-24	28⅞	28⅞	27
36	3	(*)-F 03-S-VI90-36	40½	40½	28 7/16
	4	(*)-F 04-S-VI90-36	40⅞	40⅞	39
	6	(*)-F 06-S-VI90-36	40⅞	40⅞	39
48	3	(*)-F 03-S-VI90-48	52½	52½	36 15/16
	4	(*)-F 04-S-VI90-48	52⅞	52⅞	51
	6	(*)-F 06-S-VI90-48	52⅞	52⅞	51

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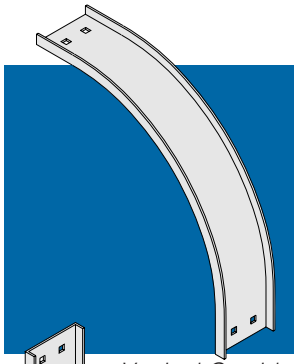
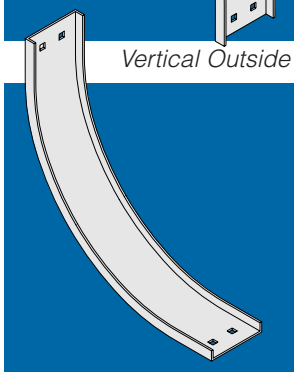
T&B® Cable Tray

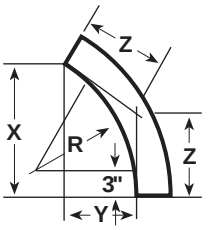
Cable Channel – Vertical Bends – 60° Outside and Inside

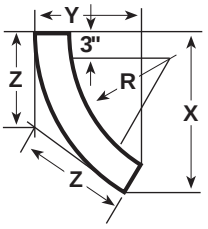


Vertical Outside



Vertical Inside





Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

Inside Channel Width: 03=3",04=4",06=6"

Bottom Styles:
S – Solid

Part Numbering System

(HGT)-F-03-S-VO60-36

Fitting Material
Series
Width
Bottom Style
Fitting Type
Angle
Radius

60° VERTICAL OUTSIDE BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-VO60-12	14⅞	8⅝	9
	4	(*)-F 04-S-VO60-12	15	15	15
	6	(*)-F 06-S-VO60-12	15	15	15
24	3	(*)-F 03-S-VO60-24	25⅝	14⅝	15
	4	(*)-F 04-S-VO60-24	27	27	27
	6	(*)-F 06-S-VO60-24	27	27	27
36	3	(*)-F 03-S-VO60-36	35 11/16	20⅝	21
	4	(*)-F 04-S-VO60-36	39	39	39
	6	(*)-F 06-S-VO60-36	39	39	39
48	3	(*)-F 03-S-VO60-48	46 1/16	26⅝	27
	4	(*)-F 04-S-VO60-48	51	51	51
	6	(*)-F 06-S-VO60-48	51	51	51

60° VERTICAL INSIDE BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-VI60-12	16 3/16	10⅛	9
	4	(*)-F 04-S-VI60-12	16½	10½	15
	6	(*)-F 06-S-VI60-12	16½	10½	15
24	3	(*)-F 03-S-VI60-24	26 3/16	16⅛	15
	4	(*)-F 04-S-VI60-24	26 15/16	16½	27
	6	(*)-F 06-S-VI60-24	26 15/16	16½	27
36	3	(*)-F 03-S-VI60-36	37	22⅛	21
	4	(*)-F 04-S-VI60-36	37 5/16	22½	39
	6	(*)-F 06-S-VI60-36	37 5/16	22½	39
48	3	(*)-F 03-S-VI60-48	47⅜	28⅛	27
	4	(*)-F 04-S-VI60-48	47 11/16	28½	51
	6	(*)-F 06-S-VI60-48	47 11/16	28½	51

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T&B® Cable Tray

Cable Channel – Vertical Bends – 45° Outside and Inside

Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

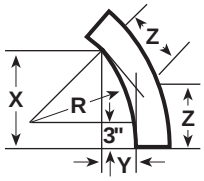
Inside Channel Width: 03=3",04=4",06=6"

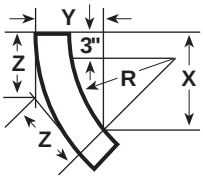
Bottom Styles:
S – Solid

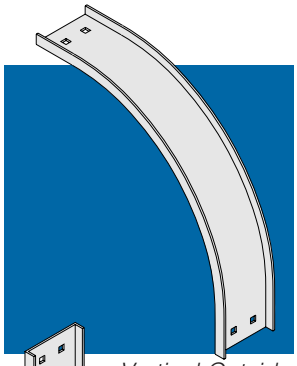
Part Numbering System

(S6T)-F-04-S-VI45-48

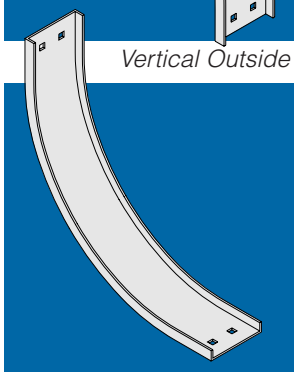
Fitting Material
Series
Width
Bottom Style
Fitting Type
Angle
Radius







Vertical Outside



Vertical Inside

45° VERTICAL OUTSIDE BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-VO45-12	13 5/8	5 5/8	7 9/16
	4	(*)-F 04-S-VO45-12	15	15	15
	6	(*)-F 06-S-VO45-12	15	15	15
24	3	(*)-F 03-S-VO45-24	22 1/16	9 1/8	12 3/16
	4	(*)-F 04-S-VO45-24	27	27	27
	6	(*)-F 06-S-VO45-24	27	27	27
36	3	(*)-F 03-S-VO45-36	30 9/16	12 11/16	16 3/4
	4	(*)-F 04-S-VO45-36	39	39	39
	6	(*)-F 06-S-VO45-36	39	39	39
48	3	(*)-F 03-S-VO45-48	39 1/16	16 3/16	21 3/8
	4	(*)-F 04-S-VO45-48	51	51	51
	6	(*)-F 06-S-VO45-48	51	51	51

45° VERTICAL INSIDE BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-VI45-12	14 11/16	7 1/8	7 9/16
	4	(*)-F 04-S-VI45-12	14 15/16	7 1/2	15
	6	(*)-F 06-S-VI45-12	14 15/16	7 1/2	15
24	3	(*)-F 03-S-VI45-24	23 1/8	10 5/8	12 3/16
	4	(*)-F 04-S-VI45-24	23 7/16	11	27
	6	(*)-F 06-S-VI45-24	23 7/16	11	27
36	3	(*)-F 03-S-VI45-36	31 5/8	14 3/16	16 3/4
	4	(*)-F 04-S-VI45-36	31 7/8	14 9/16	39
	6	(*)-F 06-S-VI45-36	31 7/8	14 9/16	39
48	3	(*)-F 03-S-VI45-48	40 1/8	17 11/16	21 3/8
	4	(*)-F 04-S-VI45-48	40 3/8	18 1/16	51
	6	(*)-F 06-S-VI45-48	40 3/8	18 1/16	51

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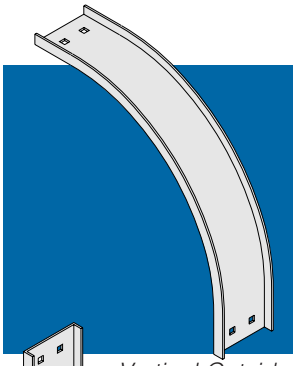
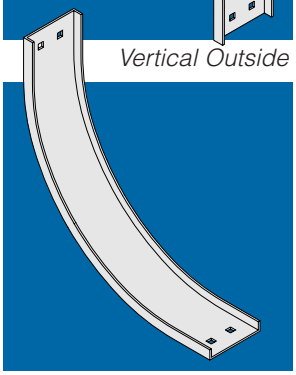
T&B® Cable Tray

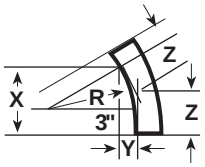
Cable Channel – Vertical Bends – 30° Outside and Inside

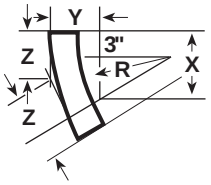


Vertical Outside



Vertical Inside





Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

Inside Channel Width: 03=3",04=4",06=6"

Bottom Styles:
S – Solid

Part Numbering System

(ALT)-F-06-S-VI30-24

Fitting Material
Series
Width
Bottom Style
Fitting Type
Angle
Radius

30° VERTICAL OUTSIDE BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-VO30-12	11 5/8	3 1/8	6 1/8
	4	(*)-F 04-S-VO30-12	15	15	15
	6	(*)-F 06-S-VO30-12	15	15	15
24	3	(*)-F 03-S-VO30-24	17 5/8	4 11/16	9 3/16
	4	(*)-F 04-S-VO30-24	27	27	27
	6	(*)-F 06-S-VO30-24	27	27	27
36	3	(*)-F 03-S-VO30-36	23 5/8	6 5/16	12 5/16
	4	(*)-F 04-S-VO30-36	39	39	39
	6	(*)-F 06-S-VO30-36	39	39	39
48	3	(*)-F 03-S-VO30-48	29 5/8	7 15/16	15 7/16
	4	(*)-F 04-S-VO30-48	51	51	51
	6	(*)-F 06-S-VO30-48	51	51	51

30° VERTICAL INSIDE BEND

RADIUS R	WIDTH	CATALOG NO.	DIMENSIONS X	Y	Z
12	3	(*)-F 03-S-VI30-12	12 3/8	4 5/8	6 1/8
	4	(*)-F 04-S-VI30-12	12 9/16	5	15
	6	(*)-F 06-S-VI30-12	12 9/16	5	15
24	3	(*)-F 03-S-VI30-24	18 3/8	6 3/16	9 3/16
	4	(*)-F 04-S-VI30-24	18 9/16	6 9/16	27
	6	(*)-F 06-S-VI30-24	18 9/16	6 9/16	27
36	3	(*)-F 03-S-VI30-36	24 3/8	7 13/16	12 5/16
	4	(*)-F 04-S-VI30-36	24 9/16	8 3/16	39
	6	(*)-F 06-S-VI30-36	24 9/16	8 3/16	39
48	3	(*)-F 03-S-VI30-48	30 3/8	9 7/16	15 7/16
	4	(*)-F 04-S-VI30-48	30 9/16	9 13/16	51
	6	(*)-F 06-S-VI30-48	30 9/16	9 13/16	51

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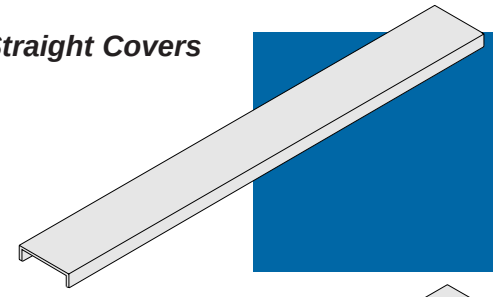
T&B® Cable Tray

Cable Channel – Flange Covers

WIDTH	CATALOG NO.
3"	(*)-F-03-SFC-72 & 144
4"	(*)-F-04-SFC-72 & 144
6"	(*)-F-06-SFC-72 & 144

** Add material prefix. See Selection Guide below.*
Hot dipped covers available in 72" only

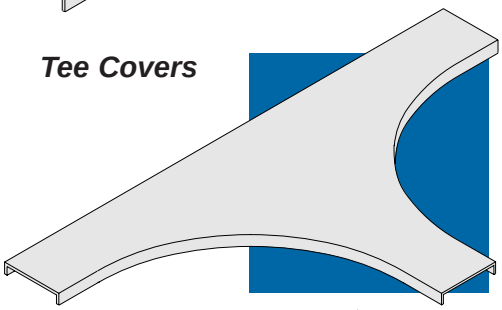
Straight Covers



WIDTH	CATALOG NO.
3"	(*)-F-03-HTC(Δ)
4"	(*)-F-04-HTC(Δ)
6"	(*)-F-06-HTC(Δ)

** Add material prefix. See Selection Guide below.*
Δ Add radius. 12=12", 24=24", 36=36", 48=48"

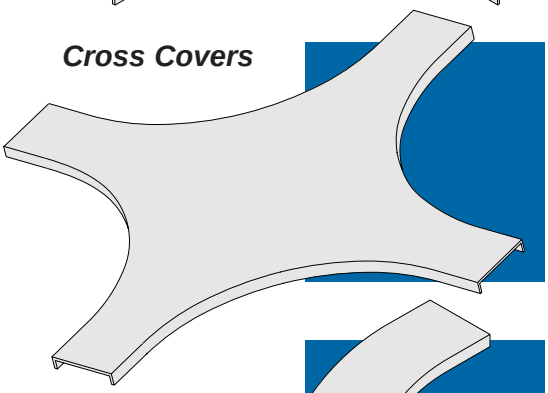
Tee Covers



WIDTH	CATALOG NO.
3"	(*)-F-03-HXC(Δ)
4"	(*)-F-04-HXC(Δ)
6"	(*)-F-06-HXC(Δ)

** Add material prefix. See Selection Guide below.*
Δ Add radius. 12=12", 24=24", 36=36", 48=48"

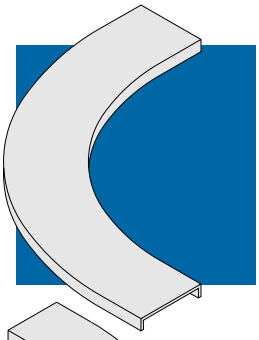
Cross Covers



WIDTH	CATALOG NO.
3"	(*)-F-03-HBC(+)(Δ)
4"	(*)-F-04-HBC(+)(Δ)
6"	(*)-F-06-HBC(+)(Δ)

** Add material prefix. See Selection Guide below.*
+ Add degree. 30=30°, 45=45°°, 60=60°, 90=90°
Δ Add radius. 12=12", 24=24", 36=36", 48=48"

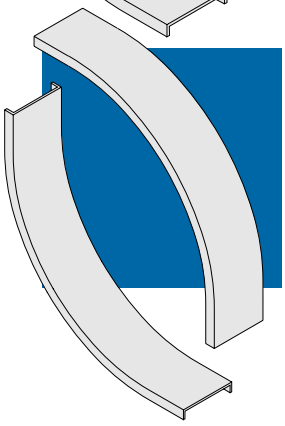
Horizontal Bend Covers



WIDTH	CATALOG NO.
3"	(*)-F-03-VIC(+)(Δ);(*)-F-03-VOC(+)(Δ)
4"	(*)-F-04-VIC(+)(Δ);(*)-F-04-VOC(+)(Δ)
6"	(*)-F-06-VIC(+)(Δ);(*)-F-06-VOC(+)(Δ)

** Add material prefix. See Selection Guide below.*
+ Add degree. 30=30°, 45=45°°, 60=60°, 90=90°
Δ Add radius. 12=12", 24=24", 36=36", 48=48"

Vertical Bend Covers



Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

Inside Channel Width: 03=3",04=4",06=6"

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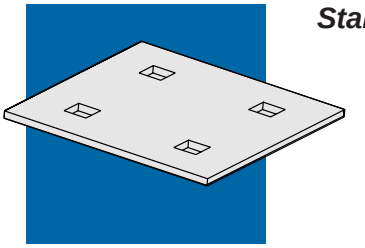
T&B® Cable Tray

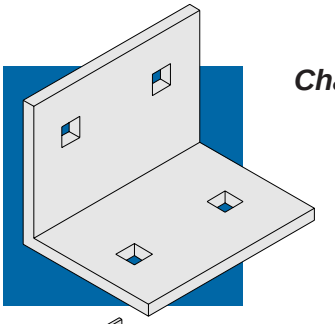
Cable Channel – Accessories



Standard Splice Plate

WIDTH	CATALOG NO.
3"	(*)-W-03-CCS
4"	(*)-W-04-CCS
6"	(*)-W-06-CCS

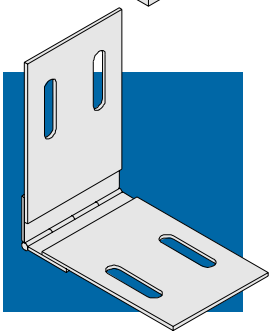
** Add material prefix. See Selection Guide below. Supplies standard with each item.*



Channel Mounting Bracket

WIDTH	CATALOG NO.
3"	(*)-W-03-CCB
4"	(*)-W-04-CCB
6"	(*)-W-06-CCB

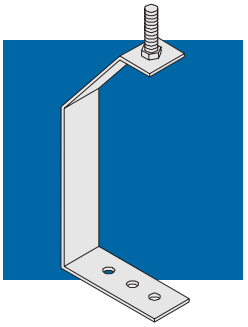
** Add material prefix. See Selection Guide below.*



Vertical Adjustable Splice Plate

WIDTH	CATALOG NO.
3"	(*)-W-03-CCV
4"	(*)-W-04-CCV
6"	(*)-W-06-CCV

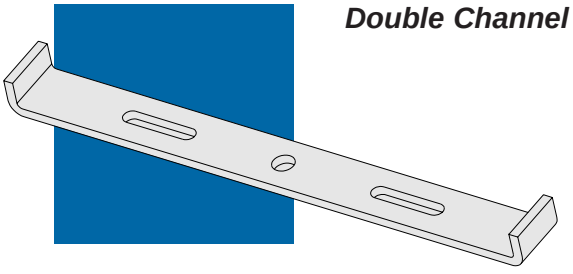
** Add material prefix. See Selection Guide below.*



Channel Hanger

CATALOG NO.
PGT-W-06-CCH
HGT-W-06-CCH

**Designed for use with ½" threaded rod.*



Double Channel Hanger

CATALOG NO.
PGT-W-06-DCH
HGT-W-06-DCH

**Designed for use with ½" threaded rod.*

Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

Inside Channel Width: 03=3",04=4",06=6"

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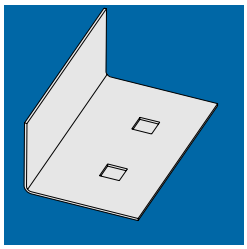
T&B® Cable Tray

Cable Channel – Accessories

Blind End Plate

WIDTH	CATALOG NO.
3"	(*)-W-03-CEP
4"	(*)-W-04-CEP
6"	(*)-W-06-CEP

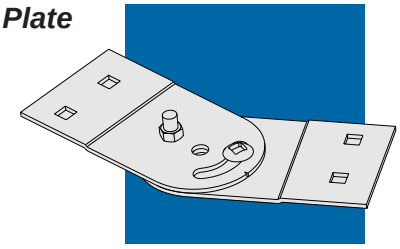
** Add material prefix. See Selection Guide below.*



Horizontal Adjustable Plate

WIDTH	CATALOG NO.
3"	(*)-W-03-CHA
4"	(*)-W-04-CHA
6"	(*)-W-06-CHA

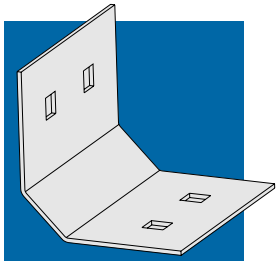
** Add material prefix. See Selection Guide below.*



Channel to Tray Plate

WIDTH	CATALOG NO.
3"	(*)-W-03-CCT
4"	(*)-W-04-CCT
6"	(*)-W-06-CCT

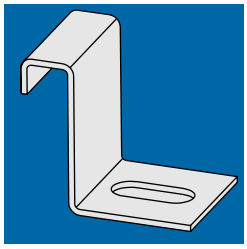
** Add material prefix. See Selection Guide below.*



Channel Expansion Guide

WIDTH	CATALOG NO.
3"	(*)-W-03-CEG
4"	(*)-W-04-CEG
6"	(*)-W-06-CEG

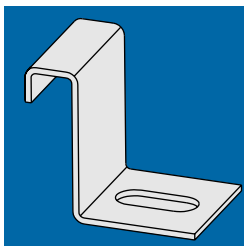
** Add material prefix. See Selection Guide below.*



Channel Hold Down Clamp

WIDTH	CATALOG NO.
3"	(*)-W-03-SHC
4"	(*)-W-04-SHC
6"	(*)-W-06-SHC

** Add material prefix. See Selection Guide below.*



Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

Inside Channel Width: 03=3",04=4",06=6"

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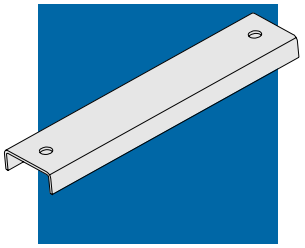
T&B® Cable Tray

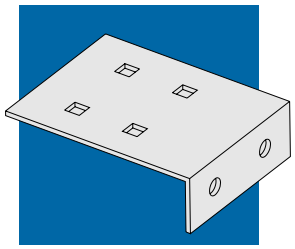
Cable Channel – Accessories



Tray to Channel Clamp

WIDTH	CATALOG NO.
3"	(*)-W-03-CTC
4"	(*)-W-04-CTC
6"	(*)-W-06-CTC

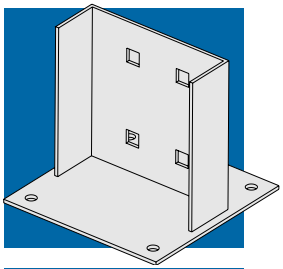
** Add material prefix. See Selection Guide below.*



Tray to Channel Mounting Bracket

WIDTH	CATALOG NO.
3"	(*)-W-03-TCB
4"	(*)-W-04-TCB
6"	(*)-W-06-TCB

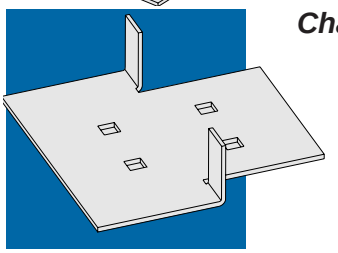
** Add material prefix. See Selection Guide below.*



Floor Base Plate

WIDTH	CATALOG NO.
3"	(*)-W-03-CBP
4"	(*)-W-04-CBP
6"	(*)-W-06-CBP

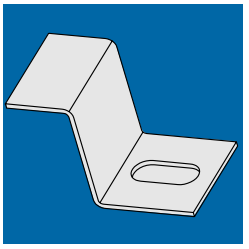
** Add material prefix. See Selection Guide below.*



Channel Reducer

REDUCE WIDTH	CATALOG NO.
4" to 3"	(*)-W-04-03-RSP
6" to 3"	(*)-W-06-03-RSP
6" to 4"	(*)-W-06-04-RSP

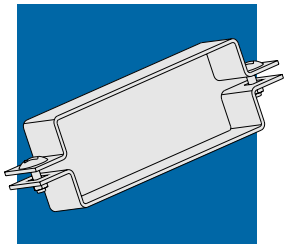
** Add material prefix. See Selection Guide below.*



Combination Hold Down Cover Clamp

WIDTH	CATALOG NO.
3"	(*)-W-03-CCC
4"	(*)-W-04-CCC
6"	(*)-W-06-CCC

** Add material prefix. See Selection Guide below.*



Wrap Around Cover Clamp

WIDTH	CATALOG NO.
3"	(*)-W-03-HCC
4"	(*)-W-04-HCC
6"	(*)-W-06-HCC

** Add material prefix. See Selection Guide below.*

Selection Guide

Material:
ALT • Aluminum / PGT • Pre-Galvanized
HGT • Hot Dip Galvanized /
S4T•304 Stainless/S6T•316 Stainless Steel

Inside Channel Width: 03=3",04=4",06=6"

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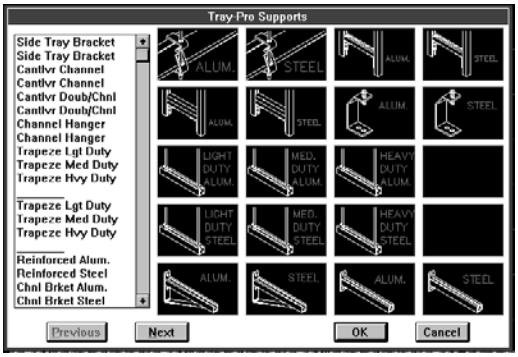
T&B® Cable Tray

Cable Channel – Tray-Pro™ – Features



Thomas & Betts Tray-Pro™ is an innovative, easy to use design package for AutoCad 12, AutoCad 13 and AutoCad Release 2000 (Windows or DOS).

Now available to download from the internet:

www.members.home.net/ctc.

Features

- Single line, 2D and 3D drawing capability.
- Automatic bill of material generator with multiple database file merging capability.
- Automatic specification generator.
- Visual interference checking through 3D.
- Open architecture layer control.
- Full editing capability.
- Automatic cable tray annotation.
- Automatic tray support drawing capability.
- Design load calculator.
- On-line NEC, NEMA and CSA standards help/assistance.
- Full detail and accessory library.
- Complete and easy to use dialog box interface.
- Metric capability.

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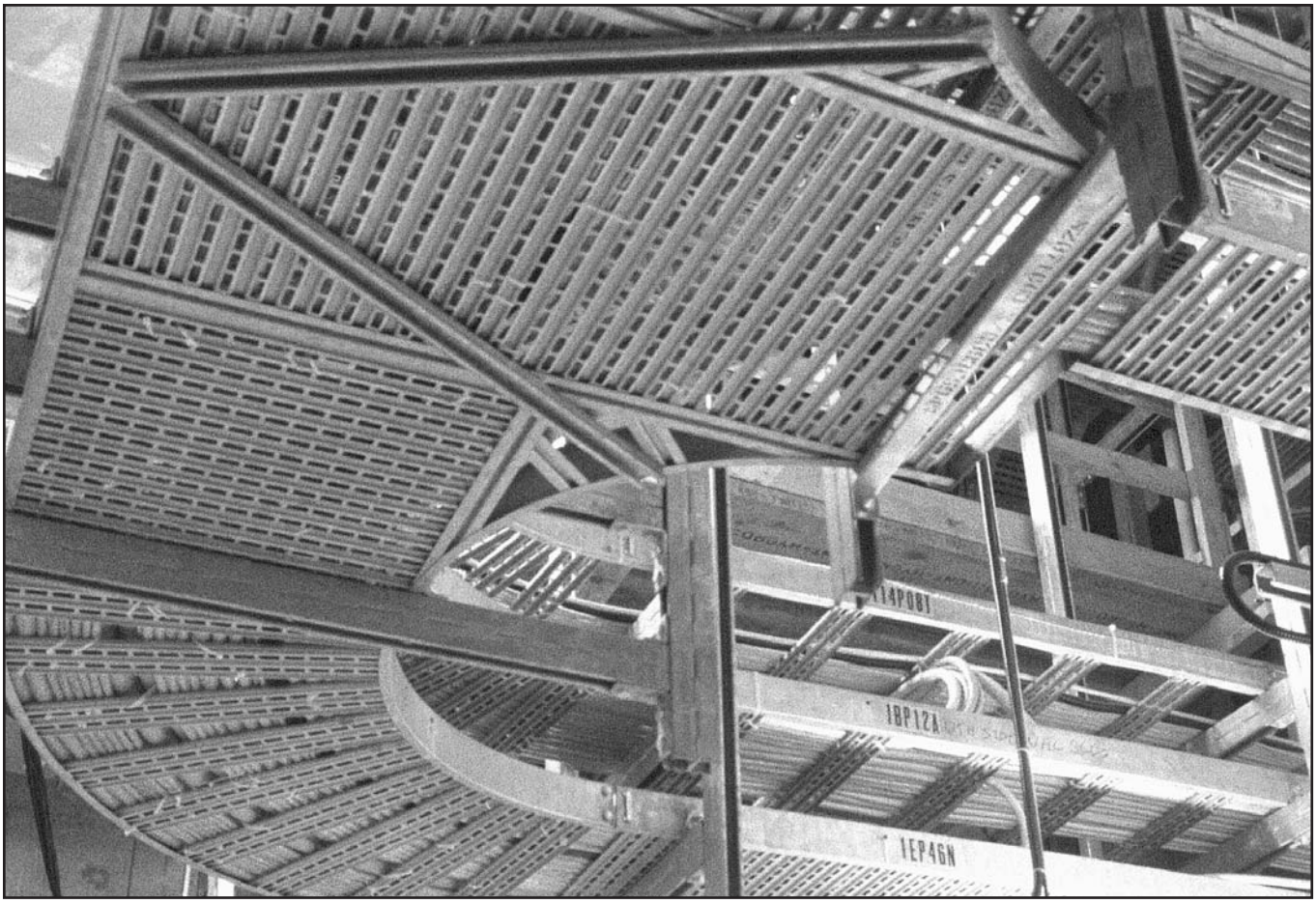
T&B® Cable Tray

Cable Tray Support Systems – T&B Cable Tray System



Features

- Complete line of accessories for all your installation needs.

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T&B® Cable Tray

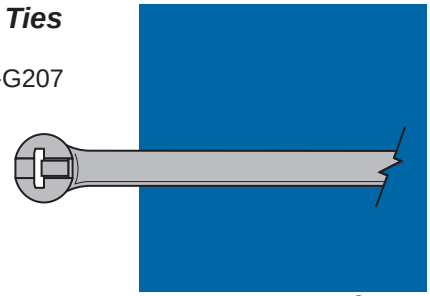
Cable Tray Support Systems – Index

Thomas & Betts offers a complete line of quality electrical products to support your installation requirements. For complete information see the T&B Full Line Technical/Specification Catalog. The catalog includes complete information on:

- **T&B DATA & COMMUNICATION PRODUCTS**
  Coaxial and Modular Connectors, Splitters, Test Devices.
- **VERSA-TRAK**
  Undercarpet Wire System, Modular Connector System for Power and Communications.
- **T&B ELECTRICIANS' SUPPLIES**
  Wire Connectors, Fishtape, Wire Pulling Lubricant, Tools and Supplies for Electrical Constructions and Maintenance.
- **STA-KON**
  Wire Termination Products and Tools.
- **SHIELD-KON**
  Coaxial and TwinAx Connectors and Tools.
- **TY-RAP**
  Cable Fastening Systems.
- **TY-DUCT**
  Wire Systems and Accessories.
- **E-Z-CODE**
  Identification Products.
- **POS-E-KON**
  Industrial Connectors.
- **COLOR-KEYED**
  Compression Connectors.
- **BLACKBURN**
  Overhead and Underground Connectors. Grounding Tools and Service Entrance Products.
- **SHRINK-KON**
  Heavy Wall Tubing, Thin Wall Products, Insulation Products.
- **KINDORF**
  Modular Metal Framing and Support Systems.
- **STEEL CITY**
  Conduit Hangers and Clamps.
- **SUPERSTRUT**
  Metal Framing, Channel, Fittings, Pipe Straps and Beam Clamps.
- **T&B CONDUIT FITTINGS**
  Conduit Fittings and Connectors for EMT, Rigid, Armored Flex, Jacketed Metal Clad Cable, Liquidtight, Portable Cord and Romex.
- **STEEL CITY**
  Conduit and Cable Fittings, Outdoor Electrical Products, Steel Switch Boxes, Outlet Boxes and Covers.
  Wire Management Systems and Components, Floor Boxes, Poke-through Fittings, Access Floor Modules, Wall Duct, Underfloor Duct and Trench Systems.

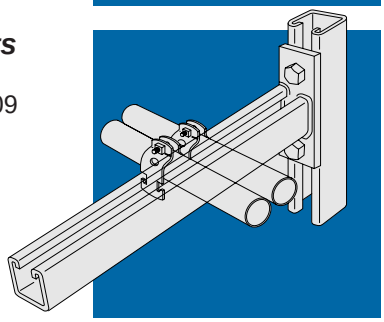
Cable Ties

pages G206-G207



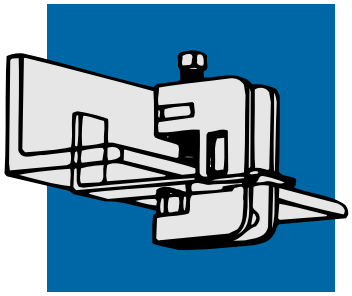
Brackets and Supports

pages G208-G209



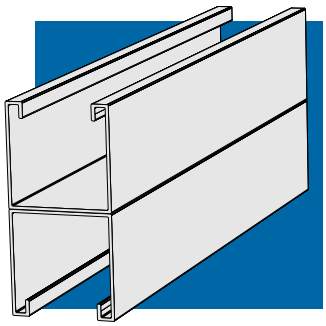
Clamps and Brackets

pages G210-G211



Inserts, Threaded Rod, Joints

page G212-G214



Accessories

page G215

Tray-Pro™ Features

page G217

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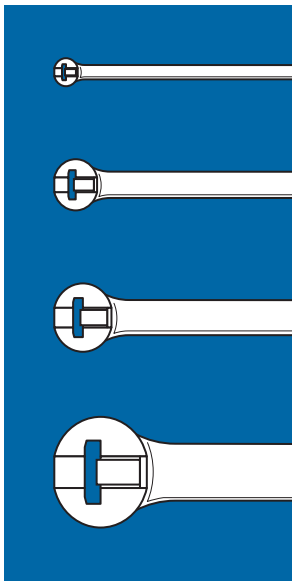
T&B® Cable Tray

Cable Tray Support Systems – Ty-Rap® – Cable Ties

Ty-Rap® Cable Tie Features

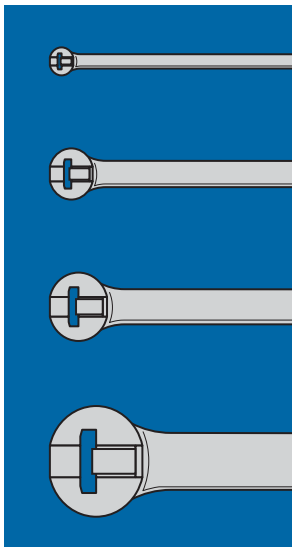
- Low profile head. Good looks – won't snag.
- Easy to install. Won't slip. Mechanic's grip.
- Stainless steel lock. Maintains right tension.
- Infinitely adjustable design. Always the "right" size.
- Smooth molded body. Won't cut into insulation.
- Ribbed and stippled back. Won't slip on bundle.



Self-Locking Ty-Rap® Nylon 6/6 Cable Ties

CATALOG NUMBER	MAXIMUM WIRE BUNDLE DIAMETER (INCHES)	TIE BODY WIDTH	LENGTH (INCHES)	MIN. TENSILE HOLDING STRENGTH (LBS.)	UNIT QTY.	STD. PKG.	WT. PER 1000
TY523M	0.625	0.091	3.62	18	100	1000	2
TY52315M	1.500	0.091	7.00	18	100	500	2
TY5232M	2.000	0.091	8.00	18	100	500	4
TY5234M	4.000	0.091	14.00	18	100	500	4
TY524M	1.125	0.140	5.50	30	100	1000	3
TY5242M	2.000	0.140	8.19	40	100	500	4
TY526M	3.000	0.140	11.08	40	100	500	4
TY5244M	4.000	0.140	14.50	40	100	500	4
TY525M	1.750	0.184	7.31	50	100	1000	4
TY5253M	3.000	0.184	11.41	50	100	500	5
TY528M	4.000	0.184	14.19	50	100	500	7
TY5272M	2.000	0.301	8.00	120	50	250	7
TY527M	3.500	0.301	13.38	120	50	500	14
TY5275M	5.000	0.270	18.0	120	50	500	17
TY5277M	7.000	0.270	24.3	120	50	500	20
TY529M	9.000	0.301	30.00	120	50	500	23
TY53510M*f*	10.00	0.320	35.00	175	50	250	28
TY54513M*f*	13.00	0.320	45.00	175	50	250	35

The TY-RAP® cable tying system incorporates a complete line of cable ties, clamps, bases, and tools to lower your wire fastening costs. TY-RAP® cable ties are infinitely adjustable so you'll always have the right size. They feature a stainless steel locking device in the head to maintain a grip of steel. To prevent slippage on the bundle, the body is ribbed and stippled.
Cable ties made from natural nylon 6/6 are excellent performers in most applications. Nylon 6/6 is recommended for use in temperatures ranging from 185°F to -40°F.



Nylon 6/6 weather resistant—black

CATALOG NUMBER	MAXIMUM WIRE BUNDLE DIAMETER (INCHES)	TIE BODY WIDTH	LENGTH (INCHES)	MIN. TENSILE HOLDING STRENGTH (LBS.)	UNIT QTY.	STD. PKG.	WT. PER 1000
TY523MX	0.625	0.091	3.62	18	100	1000	2
TY52315MX	1.500	0.091	7.00	18	100	500	2
TY5232MX	2.000	0.091	8.00	18	100	500	4
TY5234MX	4.000	0.091	14.00	18	100	500	4
TY524MX	1.125	0.140	5.50	30	100	1000	3
TY5242MX	2.000	0.140	8.19	40	100	500	4
TY526MX	3.000	0.140	11.08	40	100	500	4
TY5244MX	4.000	0.140	14.50	40	100	500	4
TY525MX	1.750	0.184	7.31	50	100	1000	4
TY5253MX	3.000	0.184	11.41	50	100	500	5
TY528MX	4.000	0.184	14.19	50	100	500	7
TY5272MX	2.000	0.301	8.00	120	50	250	7
TY527MX	3.500	0.301	13.38	120	50	500	14
TY5275MX	5.000	0.270	18.0	120	50	500	17
TY5277MX	7.000	0.270	24.3	120	50	500	20
TY529MX	9.000	0.301	30.00	120	50	500	23
TY53510MX*f*	10.00	0.320	35.00	175	50	250	28
TY54513MX*f*	13.00	0.320	45.00	175	50	250	35

The MX series cable ties are recommended for outdoor use. The addition of good ultraviolet resistance and prolongs the useful life of the cable tie.
For a complete selection refer to the Ty-Rap section of the T&B Catalog.

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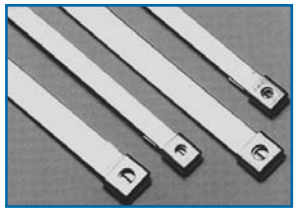
T&B® Cable Tray

Cable Tray Support Systems – Ty-Rap® – T&B Stainless Steel Cable Ties

Standard Stainless Steel Cable Ties

CATALOG NUMBER	LENGTH (INCHES)	WIDTH	MIN. TENSILE STRENGTH (LBS.)	UNIT QTY.	STD. PKG.	WT. PER 100 LBS.
SS10-250	10	.250	200	100	1000	1.1
SS17-250	16.5	.250	200	100	1000	1.8
SS23-250	22.5	.250	200	100	1000	2.5
SS29-250	29	.250	200	100	1000	3.2
SS35-250	35	.250	200	100	1000	3.8



Strong, safe, low-profile permanent ties with a unique, patented dual lock. Type 304 Stainless Steel. Add Suffix (-316) for 316 Stainless Steel.
NOTE: Available in additional lengths and materials on special order, consult Thomas & Betts customer service.

Mini Stainless Steel Cable Ties

CATALOG NUMBER	LENGTH (INCHES)	WIDTH	MIN. TENSILE STRENGTH (LBS.)	UNIT QTY.	STD. PKG.	WT. PER 100 LBS.
SS7-180	6.5	.177	100	100	1000	0.7
SS10-180	10	.177	100	100	1000	0.9
SS17-180	16.5	.177	100	100	1000	1.4
SS23-180	22.5	.177	100	100	1000	1.8
SS29-180	29	.177	100	100	1000	2.3

Strong, safe, low-profile permanent ties with a unique, patented dual lock. Type 304 Stainless Steel. Add Suffix (-316) for 316 Stainless Steel.
NOTE: Available in additional lengths and materials on special order, consult Thomas & Betts customer service.

Stainless Steel Cable Ties – Hand Tool

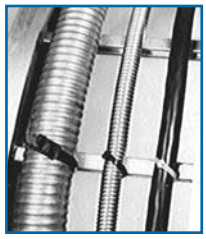
CATALOG NUMBER	FOR BODY WIDTH (INCHES)	DESCRIPTION	STD. PKG.
CABLE TIE			
WTA250	0.250	Easy to use hand tool applies tensions and cuts the tie flush	1
MINI CABLE TIE			
WTA290	0.177	Easy to use hand tool applies tensions and cuts the tie flush	1

NOTE: Mini installation tool will only apply mini stainless steel ties.
High speed pneumatic tooling is also available for production use. Consult Thomas & Betts Customer Service.

Heavy Duty Lashing Tie

CATALOG NUMBER	LENGTH (INCHES)	DIAMETER RANGE (INCHES)	TENSILE STR. (LB.)	BODY WIDTH (INCHES)	PACKAGING		WEIGHT PER 100
					CARTON	STAN-DARD	
TY5409	19.00	4.75	200	0.500	25	250	4

Length 19 in.



Ideally suited to indoor or outdoor applications that require strength, durability and ease of installation. Made from black, ultraviolet resistant nylon, the new tie retains its flexibility over an extreme temperature range… from -40°F to 185°F. Minimum tensile unlocking strength: 200 lbs., width: 0.500 in.

For a complete selection refer to the Ty-Rap section of the T&B Catalog.

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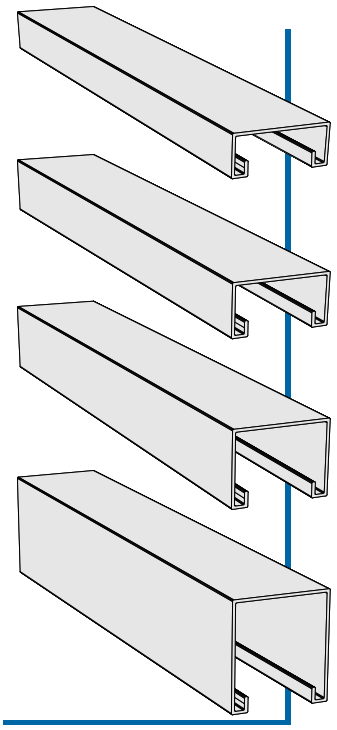
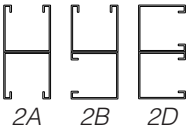
T&B® Cable Tray

Cable Tray Support Systems – Kindorf – B 900 Series Channel



Solid Base

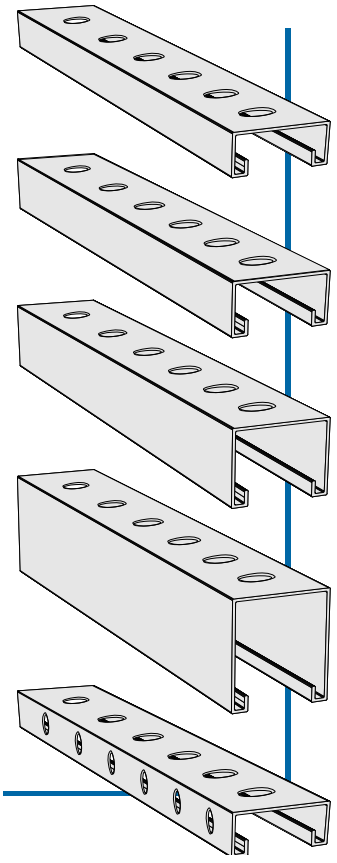
B906
B906AL



B900 (12 Ga.)
B900M (14 Ga.)
B900AL

B901

B902



Punched Base

1⁷⁄₃₂" dia. bolt holes on 1½" centers, ¾" from end.

B907
B907AL

B905 (12Ga.)
B905M (14Ga.)
B905AL

B909

B903

B995 (12 Ga.)
B995M (14 Ga.)

CATALOG NUMBER	STD PKG. QTY.	WEIGHT PER CARTON
B-900-10	600	158
B-900-20	600	158
B-900-M-10	600	107
B-900-M-20	600	107
B-900-2A-10	300	336
B-900-2A-20	300	336
B-900-2B-10	300	336
B-900-2B-20	300	336
B-900-2D-10	300	336
B-900-2D-20	300	336
B-901-10	320	196
B-901-20	320	196
B-902-10	320	285
B-902-20	320	285
B-903-10	160	277
B-903-20	320	277
B-904-10	600	155
B-905-10	600	154
B-905-20	600	154
B-905-M-10	600	103
B-905-M-20	600	102
B-905-2A-10	300	310
B-905-2A-20	300	310
B-905-2B-10	300	310
B-905-2B-20	300	310
B-906-10	600	75
B-906-20	600	75
B-906-2A-10	600	160
B-907-10	600	70
B-907-20	600	70
B-909-10	600	188
B-909-20	600	188
B-995-6	300	142
B-995-10	600	142
B-995-20	600	142
B-995-M-10	600	91
Green Powder Coated		
B-900-10GR	600	158
B-900-20GR	600	158
B-900-2A-10GR	300	336
B-905-10GR	600	154
B-905-20GR	600	154
B-907-10GR	600	70
B-907-20GR	600	70
Pre-Galvanized		
B-900-10PG	600	158
B-900-20PG	600	158
B-900-2A-10PG	300	336
B-905-10PG	600	154
B-905-20PG	600	154
B-907-10PG	600	70
B-907-20PG	600	70
Hot Dip Galvanized		
B-900-10HD	600	160
B-900-20HD	600	160
B-905-10HD	600	152
B-905-20HD	600	152
B-907-10HD	600	70
B-907-20HD	600	70
Stainless Steel		
B-900-10SS	600	158
B-900-20SS	600	158
B-905-10SS	600	154
B-905-20SS	600	154
B-907-10SS	600	70
B-907-20SS	600	70
Aluminum		
B-900-AL-10	600	58
B-905-AL-10	600	56
B-906-AL-10	600	70
B-907-AL-10	600	36
PVC Coated		
PB-905-10	600	158

For a complete selection refer to the Kindorf section of the T&B Catalog.

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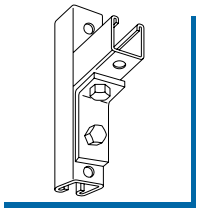
T&B® Cable Tray

Cable Tray Support Systems – Kindorf – Structure Metal Fittings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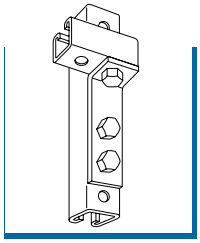
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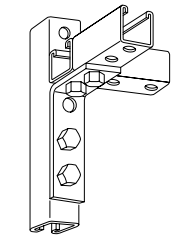
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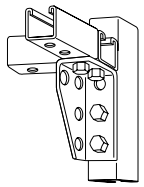
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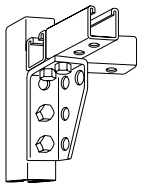
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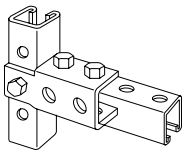
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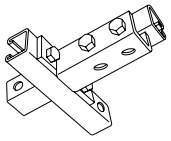
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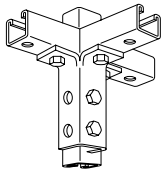
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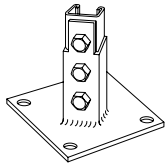
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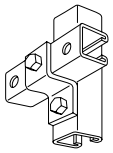
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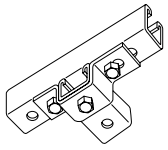
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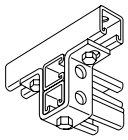
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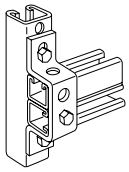
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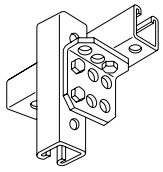
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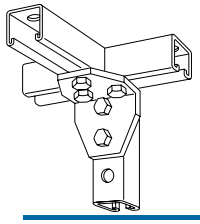
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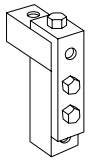
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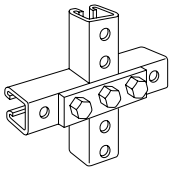
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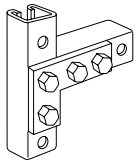
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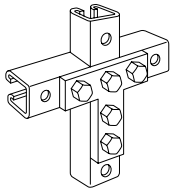
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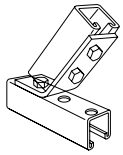
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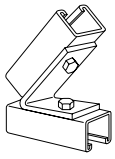
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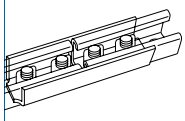
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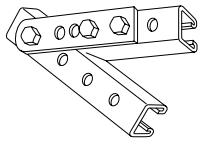
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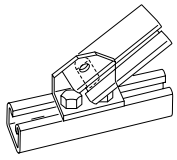
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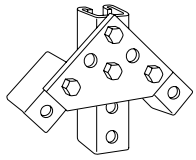
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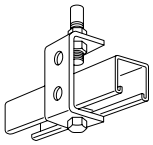
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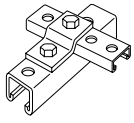
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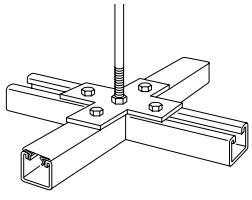
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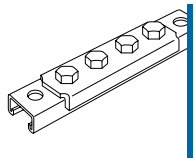
B-948

For a complete selection refer to the Kindorf section of the T&B Catalog.

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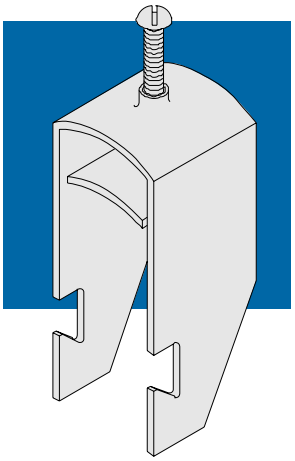
T&B® Cable Tray

Cable Tray Support Systems – Kindorf – Cable Clamps / Nuts



Pipe/Cable Clamp

Type PCC Clamps have an adjustable captive pressure plate which ensures maximum cable or pipe security. With only one bolt and one-piece construction feature, the PCC Clamp reduces installation time.

The PCC Clamp fits all standard tray and support systems.

CATALOG NO.	PIPE/CABLE O.D. RANGE
(Prefix)W-⅜-PCC	⅜" - ½"
(Prefix)W-½-PCC	½" - ¾"
(Prefix)W-¾-PCC	¾" - 1"
(Prefix)W-1-PCC	1" - 1¼"
(Prefix)W-1¼-PCC	1¼" - 1½"
(Prefix)W-1½-PCC	1½" - 2"
(Prefix)W-2-PCC	2" - 2½"
(Prefix)W-2½-PCC	2½" - 3"
(Prefix)W-3-PCC	3" - 4"
(Prefix)W-4-PCC	4" - 5"

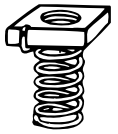
Prefix Selection: *AL • Aluminum*
PG • Pre-Galvanized
S4• 304 Stainless Steel
S6• 316 Stainless Steel

G

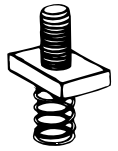
T&B® Cable Tray

Standard finish: Galv-Krōm.

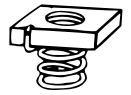
B-910 SERIES
For use with all Kindorf Channels.



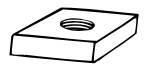
B-911 SERIES
Self-Holding clamping nut with spring attached. For use with 1½" deep channels.



B-911-SN SERIES
Stud nut self-holding clamping nut with spring attached.



B-912 SERIES
Self-holding clamping nut with spring attached. For use with ¾" deep channels



B-914 SERIES
Square nuts for use with channel and spot-type concrete inserts.

Size (in.)	Thread	B-910 Cat. No.	B-910 Wt. (lbs./C)	B-911 Cat. No.	B-911 Wt. (lbs./C)	B-911-SN Cat. No.	B-911-SN Wt. (lbs./C)	B-912 Cat. No.	B-912 Wt. (lbs./C)	B-914 Cat. No.	B-914 Wt. (lbs./C)
¼	20	B-910-1/4	7.5	B-911-1/4	8			B-912-1/4	8	B-914-1/4	10.5
5/16	18	B-910-1/16	7.3	B-911-5/16	8.25			B-912-5/16	7.5		
⅜	16	B-910-3/8	9.15	B-911-3/8	10	†B-911-3/8-SN1	12.5	B-912-3/8	9.5	B-914-3/8	13.25
				B-911-D-3/8	12	†B-911-3/8-SN2	13				
½	13	B-910-1/2	9.9	B-911-1/2	10	†B-911-3/8-SN1	16	B-912-1/2	9.8	B-914-1/2	14
				B-911-D-1/2	13	†B-911-3/8-SN2	17				
⅝	11									B-914-5/8	14
¾	10									B-914-3/4	12
⅞	9										
⅜	18**									B-914-3/8P	12
½	14**									B-914-1/2P	11

**For clamping nuts with spring for 3" deep channels add suffix "D" to catalog number.*
***Standard Pipe Threads.*
†B-911-⅜ SN1. Stud: ⅜" Dia., 1" Long. Accepts Kindorf Nuts H-114 (hex), H-116-A (square).
B-911-⅜ SN2. Stud: ⅜" Dia., 1¼" Long. Accepts Kindorf Nuts H-114 (hex), H-116-A (square).
B-911-½ SN1. Stud: ½" Dia., 1" Long. Accepts Kindorf Nuts H-114 (hex), H-116-A (square).
B-911-½ SN2. Stud: ½" Dia., 1¼" Long. Accepts Kindorf Nuts H-114 (hex), H-116-A (square).

For a complete selection refer to the Kindorf section of the T&B Catalog.

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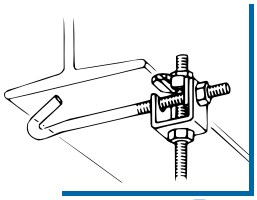
T&B® Cable Tray

Cable Tray Support Systems – Kindorf – Beam Clamps and Brackets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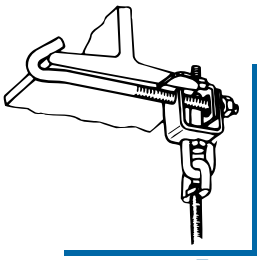
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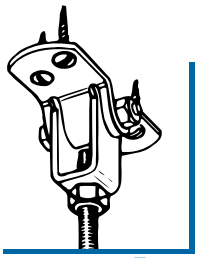
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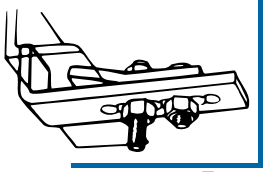
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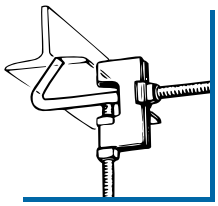
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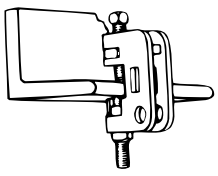
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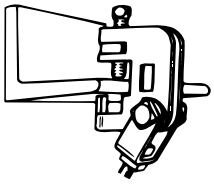
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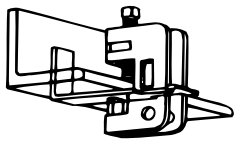
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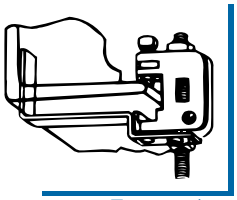
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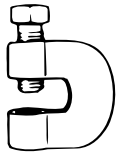
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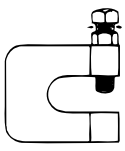
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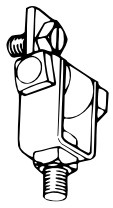
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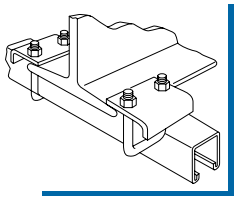
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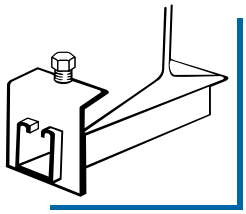
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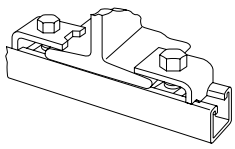
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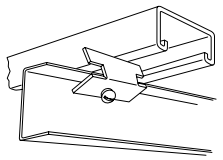
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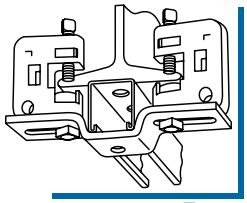
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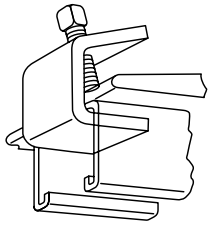
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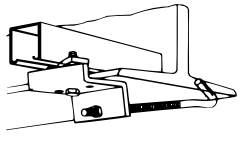
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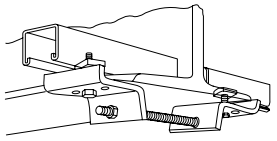
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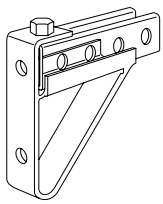
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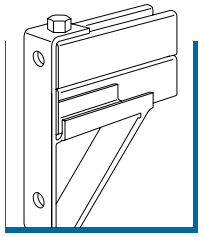
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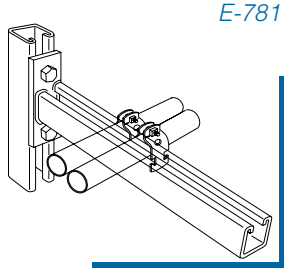
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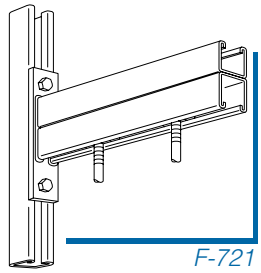
F-721

For a complete selection refer to the Kindorf section of the T&B Catalog.

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T&B® Cable Tray

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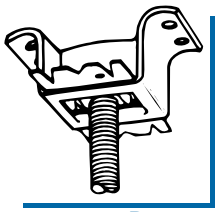
T&B® Cable Tray

Cable Tray Support Systems – Kindorf – Concrete Inserts / Threaded Rod / Swivel Joints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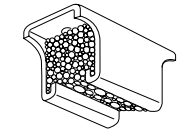
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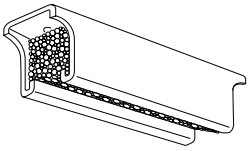
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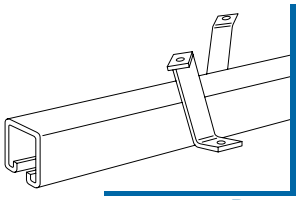
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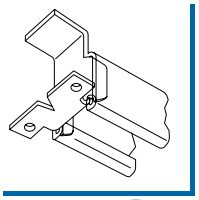
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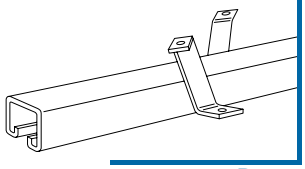
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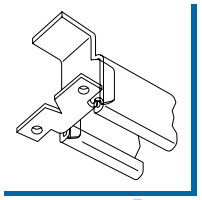
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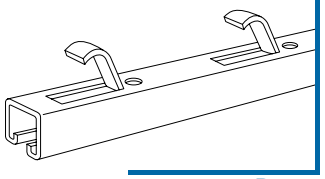
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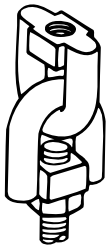
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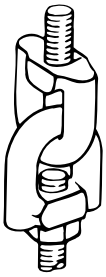
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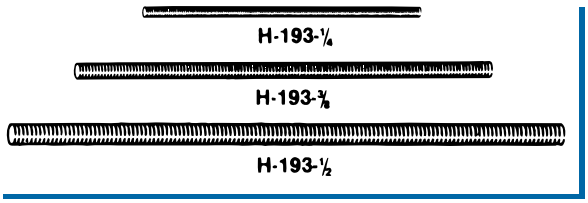
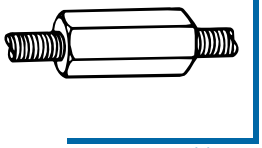
H-262

H-272




H-195

For a complete selection refer to the Kindorf section of the T&B Catalog.

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T&B® Cable Tray

Cable Tray Support Systems – Superstrut – 12 Gauge Channel Type A

CATALOG NUMBER	STD PKG. QTY.	WEIGHT PER CARTON
A-1200-10	500	181
A-1200-20	500	181
A-1200-HS-10	500	177
A-1200-HS-20	500	177
A-1200-KO-10	500	181
A-1200-KO-20	500	181
A-1200-P-10	500	177
A-1200-P-20	500	177
A-1200-S-10	500	172
A-1200-S-20	500	172
Green		
A-1200-10-GR	500	181
A-1200-20-GR	500	181
A-1200-HS-10-GR	500	177
A-1200-HS-20-GR	500	177
A-1200-P-10-GR	500	177
A-1200-P-20-GR	500	177
A-1200-S-10-GR	500	172
A-1200-S-20-GR	500	172
Pre-Galvanized		
A-1200-10-PG	500	181
A-1200-20-PG	500	181
A-1200-HS-10-PG	500	177
A-1200-HS-20-PG	500	177
A-1200-KO-10-PG	500	190
A-1200-KO-20-PG	500	190
A-1200-P-10-PG	500	177
A-1200-P-20-PG	500	177
A-1200-S-10-PG	500	172
A-1200-S-20-PG	500	180
Hot Dip Galvanized		
A-1200-10-HDG	500	181
A-1200-20-HDG	500	181
A-1200-HS-10-HDG	500	185
A-1200-HS-20-HDG	500	185
A-1200-P-10-HDG	500	177
A-1200-P-20-HDG	500	185
A-1200-S-10-HDG	500	180
A-1200-S-20-HDG	500	180
Gold Galv®		
A-1202-10	250	363
A-1202-20	240	363
A-1202-HS-10	250	353
A-1202-HS-20	240	353
Green		
A-1202-10-GR	250	380
A-1202-20-GR	240	380
Pre-Galvanized		
A-1202-10-PG	250	363
A-1202-20-PG	240	363
A-1202-HS-10-PG	250	380
A-1202-HS-20-PG	250	380
Pre-Galvanized		
A-1202-10-HDG	250	363
A-1202-20-HDG	240	363
A-1202-HS-10-HDG	250	380
A-1202-HS-20-HDG	250	380

1⅝" x 1⅝"

Solid Base

A1200

Punched

A1200-P

Slots

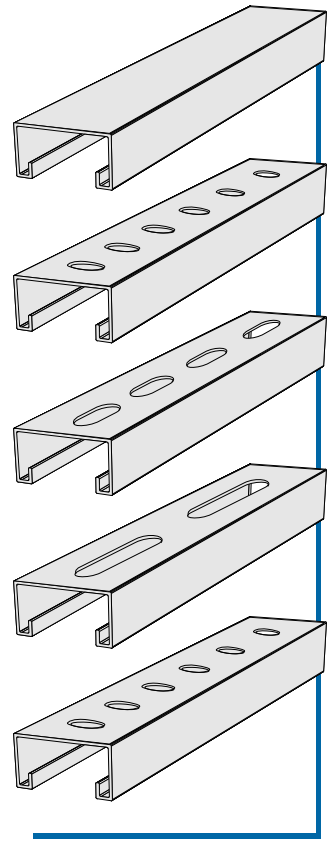
A1200-HS

Long Slots

A1200-S

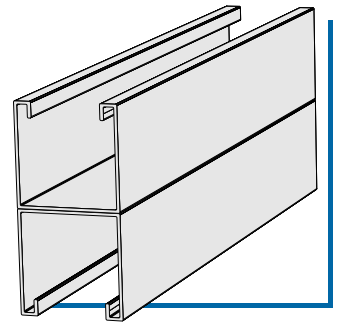
Knock-outs

A1200-KO



A-1202

A-1202-B



For a complete selection refer to the Superstrut section of the T&B Catalog.

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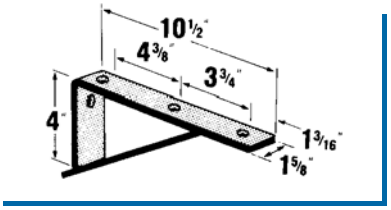
T&B® Cable Tray

Cable Tray Support Systems – Superstrut



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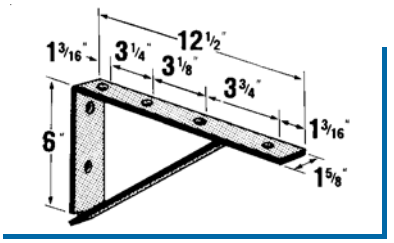

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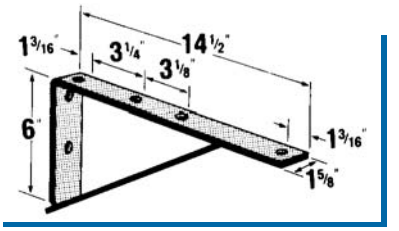

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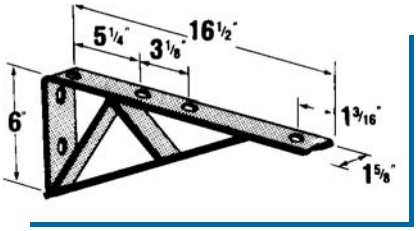

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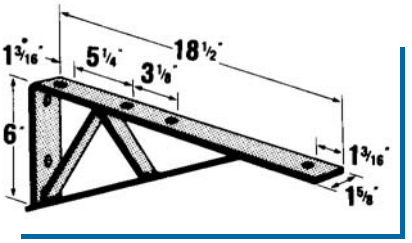

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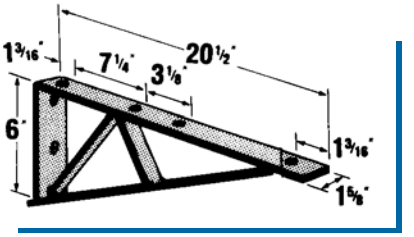

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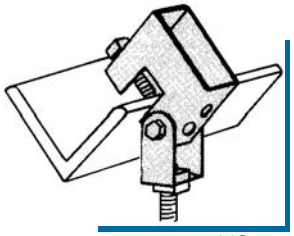

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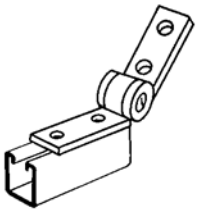

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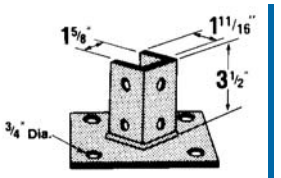

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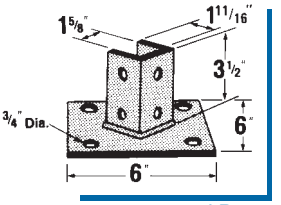

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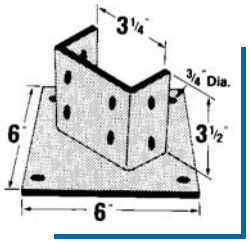

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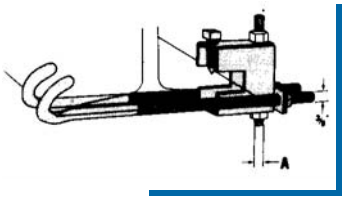

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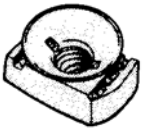

CM100

For a complete selection refer to the Superstrut section of the T&B Catalog.

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T&B® Cable Tray

Cable Tray Support Systems – Accessories

Cable Tray Ground Clamp

T&B offers a UL listed cable tray connector to provide a separate grounding conductor for tray installation.

UL listed #4-2/0 AWG copper.
UL listed 2/0-4/0 AWG Cu/Al.

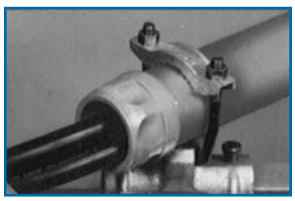
CATALOG NUMBER
10105
10109

Cable Tray Clamp

CATALOG NUMBER	SIZE (INCHES)	PACKAGING		WEIGHT PER 100
		CARTON	STAN-DARD	
6210*	½ - ¾	1	50	18
6212**	1 - 1¼	10	50	44

**UL File No.9809 / **CSA File No. 2884*
Material: Steel

Swivel Tray Clamp



CATALOG NUMBER	SIZE (INCHES)	PACKAGING		WEIGHT PER 100
		CARTON	STAN-DARD	
6209	½ - ¾	1	10	86
6211	1 - 1¼	1	10	86
6214	1½ - 2	1	5	97
6216	2½ - 3	1	5	125
6218*	3½ - 4	1	5	208

**UL File No.9809*
Swivel cable tray clamps for aluminum and steel trays with regular or reinforced flanges.
- *Serrations and biting teeth on clamping saddle provide a high quality bond between conduit and clamp.*
- *½ to 4 inch sizes can be clamped to any position in a 90° arc.*

Material: Malleable iron hub.
Steel U-bolt accepts conduit from any angle.

For a complete selection refer to the Steel City Hanger & Clamp section of the T&B Catalog.

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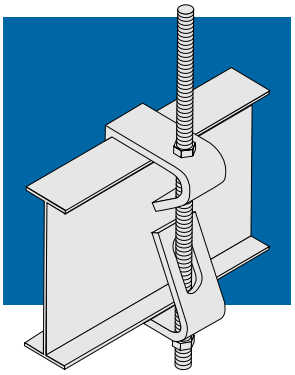
T&B® Cable Tray

Cable Tray Support Systems – Accessories

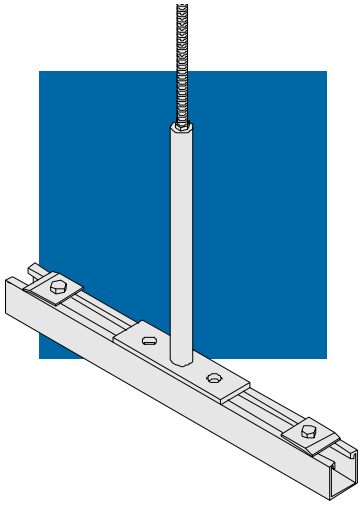


Hanger Rod Clamp

These clamps are designed for ladder tray siderails using ½" threaded rod. They provide a fast and economical solution for suspended tray installations.

- Purchase 1 assembly for each threaded rod location.
- 250 lb. capacity per each assembly.
- Uses ½" threaded rod (order separately).

SERIES	CATALOG NO.
Hanger Rod Clamp for Aluminum Tray	
AL1-3⅞	ALW-1-3⅞-HRC
AL14	ALW-1-4-HRC
AL24	ALW-2-4-HRC
AL25	ALW-3-5-HRC
AL34	ALW-3-4-HRC
AL35	ALW-2-5-HRC
AL16	ALW-1-6-HRC
AL26	ALW-2-6-HRC
AL36	ALW-3-6-HRC
AL27	ALW-2-7-HRC
AL37	ALW-3-7-HRC
Hanger Rod Clamp for Steel Tray	
Hot Dip Galvanized	HGW-HRC
Pre-Galvanized	PGW-HRC
Hanger Rod Clamp for Stainless Steel Tray	
304 Stainless	S4W-HRC
316 Stainless	S6W-HRC

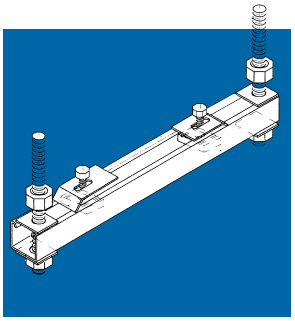


Center Support Bracket

This designed system reduces cable pulling by allowing access form both sides. Installation cost and time are reduced significantly by single point suspension.

- Supplied with all parts.
- Uses ½" threaded rod (order separately).
- For use with up to 24" wide tray.
- Load capacity 700 lbs.

MATERIAL	WIDTH	CATALOG NO.
HGW	18"	HGW-18-CSB
Hot Dip Galvanized	30"	HGW-30-CSB



Trapeze Kit

Kit consists of:

1 pc. strut

2 pcs. Hold Down Clips (PGW-HEC or HGW-HEC)

2 pcs. ⅜" x ⅞" Hex Head Cap Screw

4 pcs. ⅜" Strut Nut

4 pcs. ½" Hex Nut

4 pcs. Square Washer

WIDTH	CATALOG NO.
6"	(*)-06-TPK
9"	(*)-09-TPK
12"	(*)-12-TPK
18"	(*)-18-TPK
24"	(*)-24-TPK
30"	(*)-30-TPK
36"	(*)-36-TPK
42"	(*)-42-TPK

**Insert HGW for Hot Dip Galvanized*
**Insert PGW for Pre-Galvanized*

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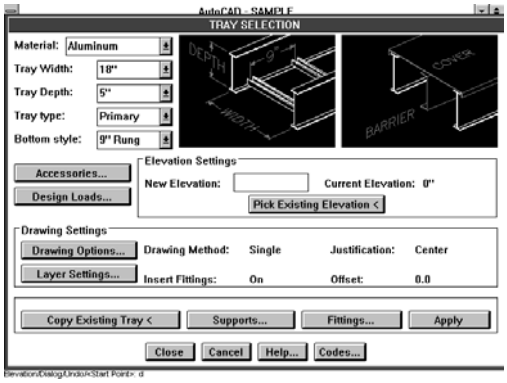
T&B® Cable Tray

Cable Tray Support Systems – Tray-Pro™ – Features



Thomas & Betts Tray-Pro™ is an innovative, easy to use design package for AutoCad 12, AutoCad 13 AutoCad Release 2000 (Windows or DOS).

Now available to download from the internet:

www.members.home.net/ctc/

Features

- Single line, 2D and 3D drawing capability.
- Automatic bill of material generator with multiple database file merging capability.
- Automatic specification generator.
- Visual interference checking through 3D.
- Open architecture layer control.
- Full editing capability.
- Automatic cable tray annotation.
- Automatic tray support drawing capability.
- Design load calculator.
- On-line NEC, NEMA and CSA standards help/assistance.
- Full detail and accessory library.
- Complete and easy to use dialog box interface.
- Metric capability.

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T&B® Express Tray

Overview . . . . . I2 - I3
U-Profile . . . . . I4 - I7
C-Profile . . . . . I8 - I9
L-Profile and Tools . . . . . I10 - I11
Hardware. . . . . I12 - I23
Quick Reference . . . . . I24 - I25
Configuration Methods. . . . . I26 - I29
Support Methods . . . . . I30 - I35
Finishes and Loading Information. . . . . I36 - I37
Index I38

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T&B® Express Tray

Overview

The demands placed on structured cabling systems and their designers, installers and maintainers are increasingly complex and rapidly changing. In such a fast-paced industry, shouldn't cabling infrastructures be able to move just as quickly?

Enter T&B® Express Tray - the fast track solution for managing light power, voice and data cables.

The latest addition to Thomas & Betts' comprehensive cable management product offering, T&B® Express Tray can be formed into any conceivable configuration with a minimum of planning and installation time. What's more, T&B® Express Tray offers the ultimate in flexibility, enabling cabling systems to be adapted quickly and cost efficiently as needs change.

In a market where the final destination keeps on changing, T&B® Express Tray lets you change direction and get there first.

The T&B® Express Tray cable management system is readily available at your local Thomas & Betts distributor. For the location nearest you, contact your Thomas & Betts Regional Sales Office.

Express is for simplicity

Express is for efficiency

Express is for versatility

Express is for flexibility

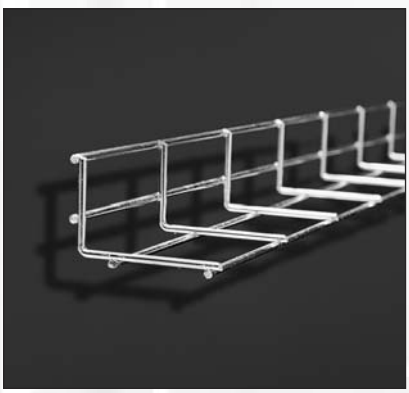
Simplicity

The system is simple. Tray, hardware, a wire cutter and a nut driver are all that's needed to start managing cable the T&B® Express Tray way.

T&B® Express Tray components are as strong as they are lightweight and can be used in a wide range of commercial and industrial environments. Trays are easy to handle and can be assembled using a minimum of manpower, hardware, and installation tools.

Efficiency

No complicated layouts required prior to arriving on the job site, no waiting for overlooked components to arrive—a cabling infrastructure built using the T&B® Express Tray system can be customized on site using only a wire cutter and a nut driver. And, all this is possible with little or no wasted material - even cut trays can be reused.



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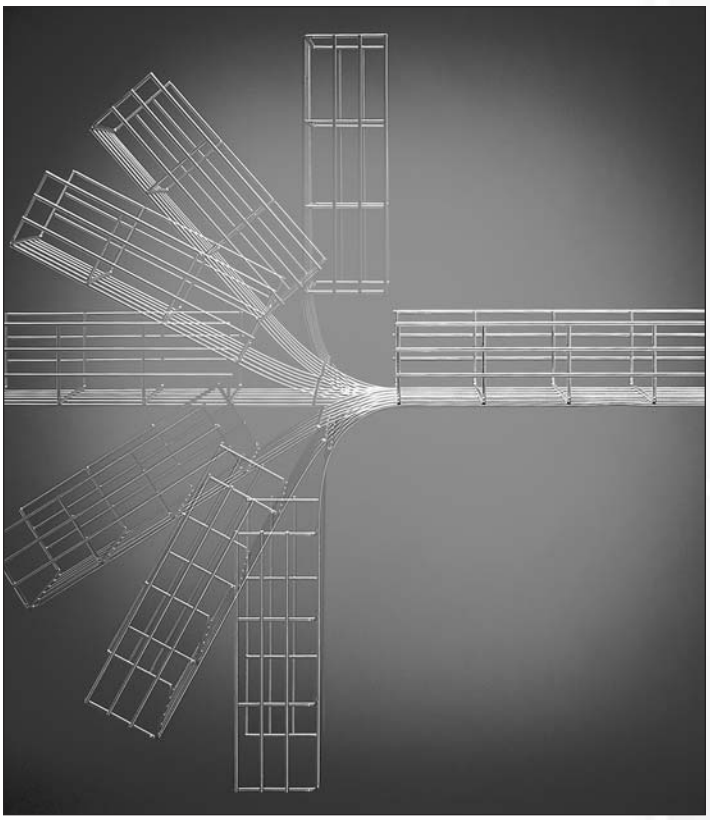
T&B® Express Tray



Versatility

T&B® Express Tray requires no corner, crossing or bend elements. Horizontal bends, vertical bends, drops outs, T-junctions, crossings, and more—any configuration can be achieved with a length of tray and a wire cutter. By simply cutting wires and bending into position, T&B® Express Tray can meet the most challenging cable lay-outs and circumvent any mechanical obstacle.

Flexibility

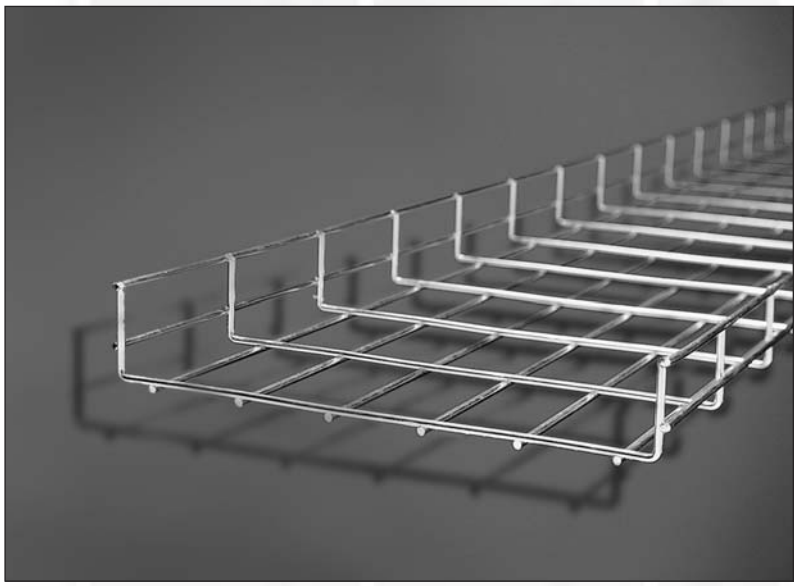
As workplace needs change, the system can easily be reconfigured to meet new requirements. Whether in new construction or retrofit projects, T&B® Express Tray's versatility makes cable routing, management and maintenance easier than ever.

Whatever the challenges, T&B® Express Tray has the power to get the project on track and completed on time at the minimum installed cost.

Getting started

This catalog is a hands-on guide for selecting, ordering and using the T&B® Express Tray cable management system.

Select the profile, width and tray finish required. Refer to the Quick Reference for an overview of typical tray configurations and support methods. Use the Express Tip (ⓘ) references in the hardware section to locate specific configurations and support methods in which components are used.



It's all here. Turn the page to get started.

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T&B® Express Tray
U-Profile

2" Deep U-Profile – Low profile for confined spaces

The most frequently specified of the T&B® Express Tray profiles, the 2" deep U-profile is ideally suited for light- to medium-duty commercial and industrial applications where space is at a premium. A low, 2-inch profile has less wires to cut and minimizes installation time.

Description

— Welded wire-mesh, cable management system made of high mechanical strength steel wire.

— Standard tray length is 10 feet nominal (3 meters actual).

— Mesh measurement of 2" x 4" is standard for all widths of tray except 2".

— Eight (8) tray widths available ranging from 2" to 24".

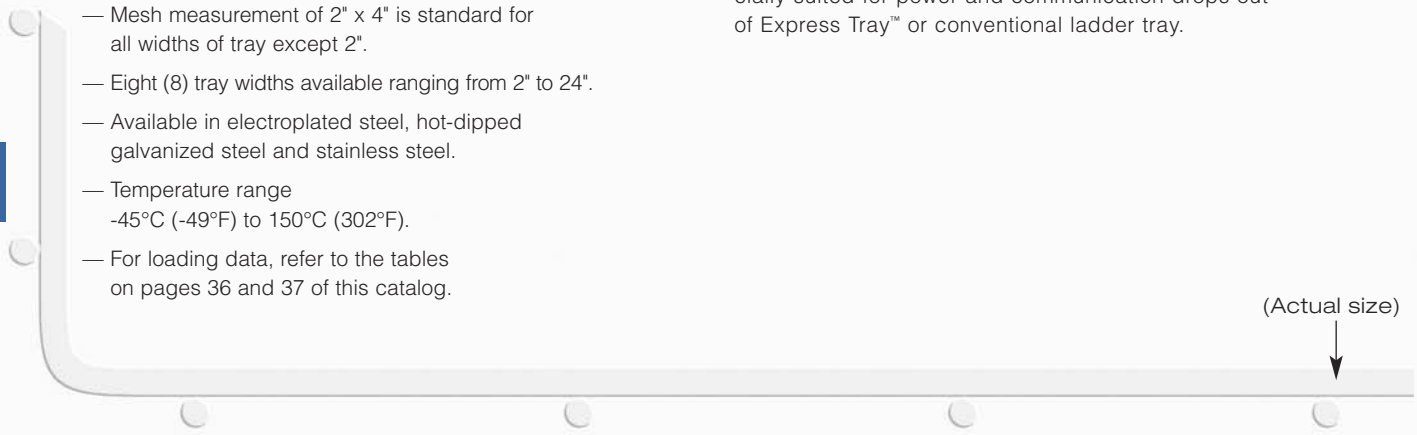
— Available in electroplated steel, hot-dipped galvanized steel and stainless steel.

— Temperature range -45°C (-49°F) to 150°C (302°F).

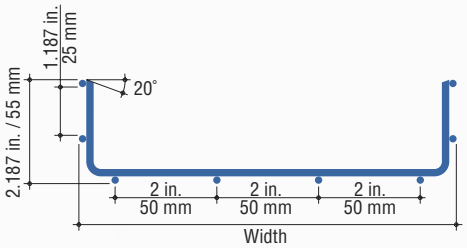
— For loading data, refer to the tables on pages 36 and 37 of this catalog.

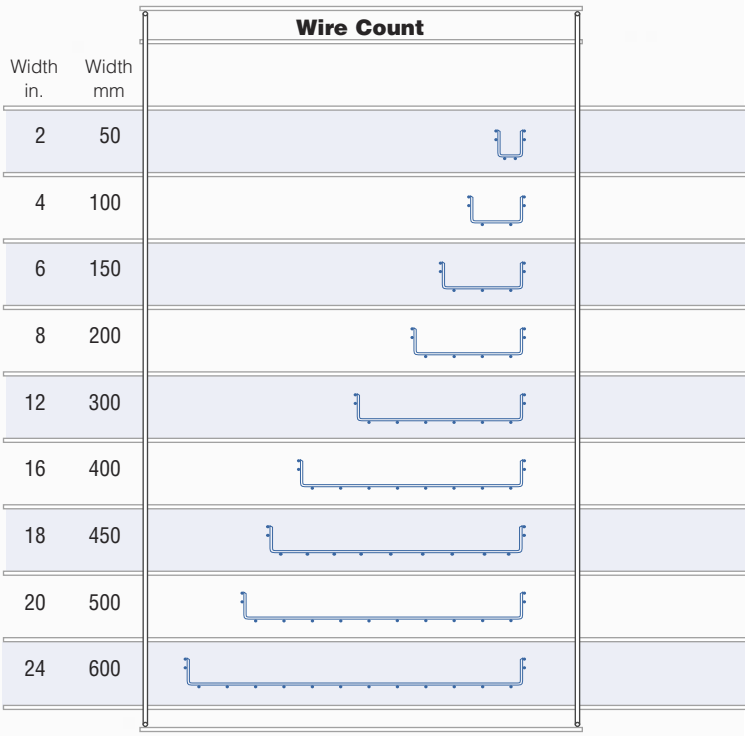
Applications

Network cabling, wiring closets, fiber-to-desktop applications and more, this tray profile is often installed in suspended ceiling plenum areas and under computer room flooring. The 2"-width is especially suited for power and communication drops out of Express Tray™ or conventional ladder tray.



Dimensions





T&B® Express Tray

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T&B® Express Tray

U-Profile

Features

—**Low profile**
provides flexibility in confined spaces where there are many obstacles to bypass.

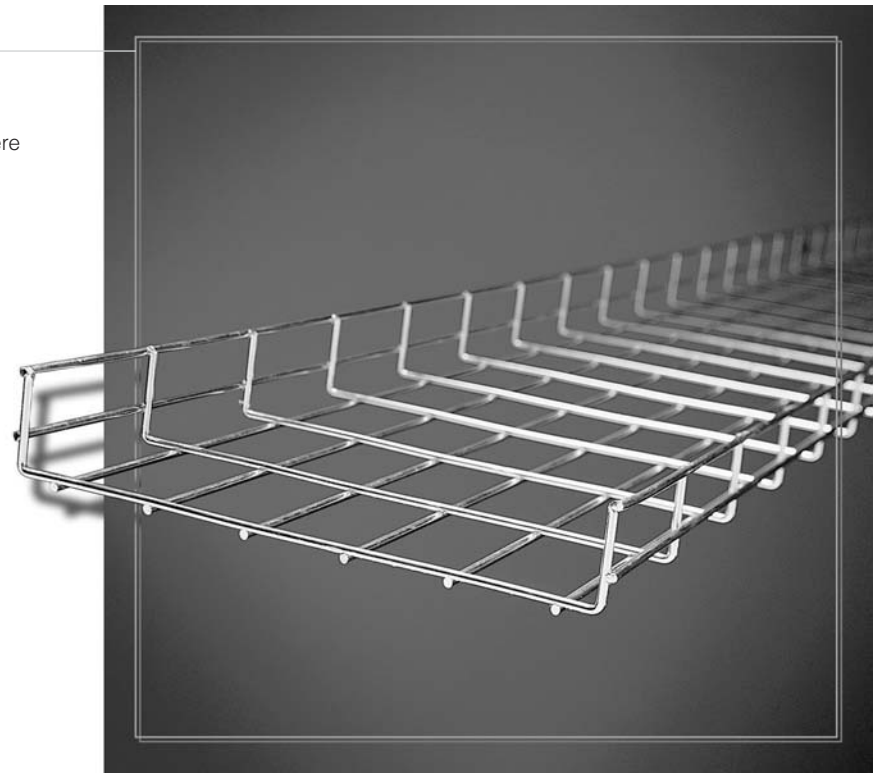
—**User-friendly**
installs in less time than conventional tray with no complex layouts, a minimum of tools and less wasted material.

—**Wide range of tray widths**
2" to 24" widths accommodate as many or as few cables as required.

—**2" x 4" mesh size**
allows cables to be routed in or out without cutting wires.

—**Open design**
continuous airflow prevents overheating and the build-up of dust and contaminants.

—**Chamfered side edge**
minimizes risk of injury for installer and damage to cables during installation.



Indoor applications

Outdoor installations exposed to corrosion accelerators, indoor applications requiring more corrosion protection.

Applications requiring the maximum corrosion protection, both indoor and outdoor.

ELECTROPLATED					HOT-DIPPED GALVANIZED					STAINLESS STEEL (Type 304)				
Wire Øin.	Wire Ømm	Catalog Number	Weight lb/ft	Weight kg/m	Wire Øin.	Wire Ømm	Catalog Number	Weight lb/ft	Weight kg/m	Wire Øin.	Wire Ømm	Catalog Number	Weight lb/ft	Weight kg/m
5/32	3.9	ETU 2002SE10	0.43	0.63	5/32	3.9	ETU 2002SH10	0.44	0.65	—	—	—	—	—
5/32	3.9	ETU 2004SE10	0.49	0.72	5/32	3.9	ETU 2004SH10	0.50	0.74	5/32	3.9	ETU 2004SS10	0.52	0.77
5/32	3.9	ETU 2006SE10	0.56	0.83	5/32	3.9	ETU 2006SH10	0.58	0.85	—	—	—	—	—
11/64	4.4	ETU 2008SE10	0.86	1.27	11/64	4.4	ETU 2008SH10	0.87	1.28	11/64	4.4	ETU 2008SS10	0.72	1.06
11/64	4.4	ETU 2012SE10	1.28	1.89	11/64	4.4	ETU 2012SH10	1.35	1.99	11/64	4.4	ETU 2012SS10	0.95	1.40
3/16	4.8	ETU 2016SE10	1.56	2.30	3/16	4.8	ETU 2016SH10	1.61	2.37	3/16	4.8	ETU 2016SS10	1.55	2.28
3/16	4.8	ETU 2018SE10	1.70	2.51	—	—	—	—	—	—	—	—	—	—
3/16	4.8	ETU 2020SE10	1.84	2.71	3/16	4.8	ETU 2020SH10	1.91	2.82	3/16	4.8	ETU 2020SS10	1.86	2.74
3/16	4.8	ETU 2024SE10	2.13	3.14	3/16	4.8	ETU 2024SH10	2.18	3.21	3/16	4.8	ETU 2024SS10	2.38	3.51

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T&B® Express Tray
U-Profile

4" Deep U-Profile – High profile for heavier loads

The 4" deep U-profile T&B® Express Tray is ideally suited for light- to medium-duty applications where more load capacity is required. The higher profile securely contains bulky cables, reducing the risk of cables falling out of heavily loaded trays.

Description

— Welded wire-mesh, cable management system made of high mechanical strength steel wire.

— Standard tray length is 10 feet nominal (3 meters actual).

— Mesh measurement of 2" x 4" is standard for all widths of tray.

— Seven (7) tray widths available ranging from 4" to 24".

— Electroplated and hot-dipped galvanized finishes available.

— Temperature range -45°C (-50°F) to 150°C (300°F).

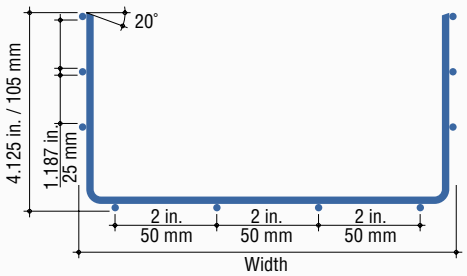
— For loading data, refer to the tables on page I36 and I37 of this catalog.

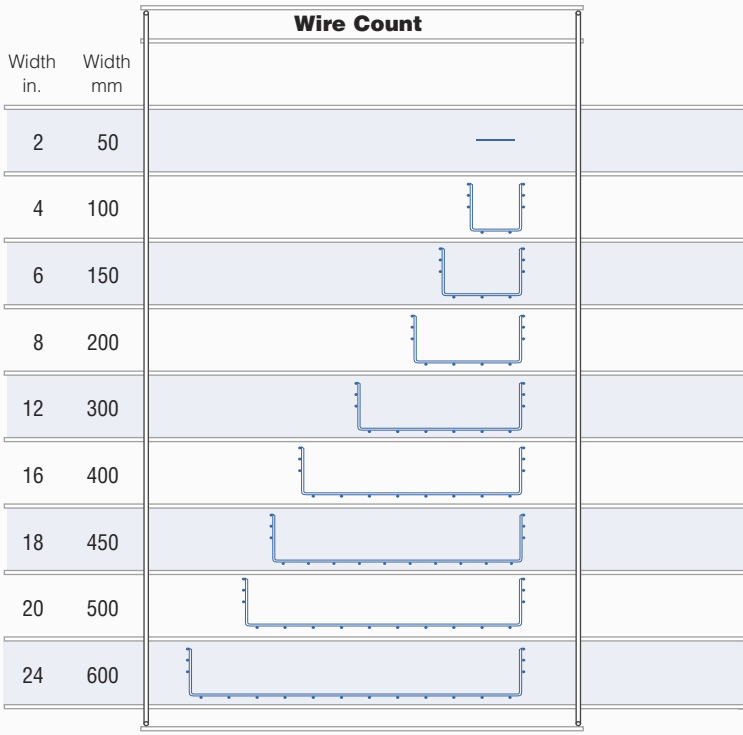
Applications

Network cabling, wiring closets, fiber-to-desktop applications and more, this tray profile can be installed in suspended ceiling plenum areas and under computer room flooring and is often used to route cables on main runs in combination with the 2" U-profile for branch runs.

(Actual size)

Dimensions





T&B® Express Tray

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T&B® Express Tray

U-Profile

Features

—**Higher profile**
enhances loading capacity, increases strength for more demanding applications, and prevents cable fallout.

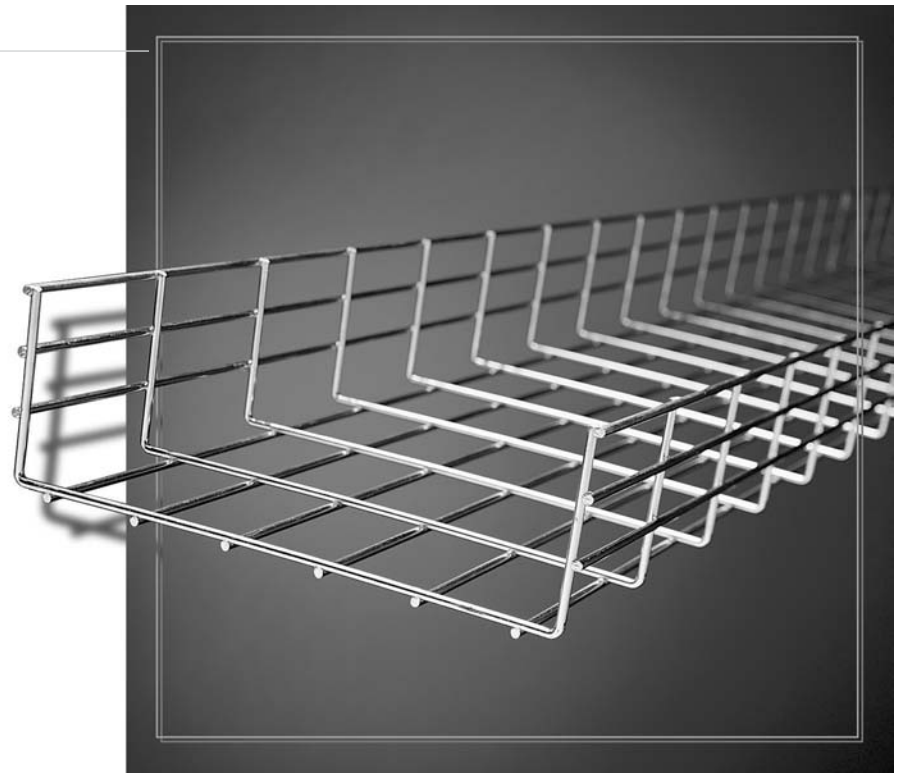
—**User-friendly**
installs in less time than conventional tray with no complex layouts, a minimum of tools and less wasted material.

—**Wide range of tray widths**
4" to 24" widths accommodate as many or as few cables as required.

—**2" x 4" mesh size**
allows cables to be routed in or out without cutting wires.

—**Open design**
continuous airflow prevents overheating and the build-up of dust and contaminants.

—**Chamfered side edge**
minimizes risk of injury for installer and damage to cables during installation.



Indoor applications

Outdoor installations exposed to corrosion accelerators, indoor applications requiring more corrosion protection.

This profile is not available in stainless steel.

ELECTROPLATED					HOT-DIPPED GALVANIZED					STAINLESS STEEL (Type 304)				
Wire Øin.	Wire Ømm	Catalog Number	Weight lb/ft	Weight kg/m	Wire Øin.	Wire Ømm	Catalog Number	Weight lb/ft	Weight kg/m	Wire Øin.	Wire Ømm	Catalog Number	Weight lb/ft	Weight kg/m
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5/32	3.9	ETU 4004SE10	0.70	1.03	5/32	3.9	ETU 4004SH10	0.72	1.06	—	—	—	—	—
5/32	3.9	ETU 4006SE10	0.80	1.03	5/32	3.9	ETU 4006SH10	0.85	1.25	—	—	—	—	—
11/64	4.4	ETU 4008SE10	1.13	1.66	11/64	4.4	ETU 4008SH10	1.16	1.71	—	—	—	—	—
3/16	4.8	ETU 4012SE10	1.44	2.12	3/16	4.8	ETU 4012SH10	1.47	2.16	—	—	—	—	—
3/16	4.8	ETU 4016SE10	1.74	2.56	3/16	4.8	ETU 4016SH10	1.77	2.61	—	—	—	—	—
3/16	4.8	ETU 4018SE10	1.89	2.78	—	—	—	—	—	—	—	—	—	—
3/16	4.8	ETU 4020SE10	2.03	2.99	3/16	4.8	ETU 4020SH10	2.07	3.05	—	—	—	—	—
3/16	4.8	ETU 4024SE10	2.33	3.43	3/16	4.8	ETU 4024SH10	2.37	3.49	—	—	—	—	—

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T&B® Express Tray

C-Profile

2½" Deep C-Profile – High strength for demanding applications

The 2½" C-profile is ideally suited for more demanding applications that require high strength and cable protection in a lower profile. The additional rigidity offered by the C-profile makes possible dual-purpose installations such as installing power and communications cabling in one main run.

Description

— Welded wire-mesh, cable management system made of high mechanical strength steel wire.

— Standard tray length is 10 feet nominal (3 meters actual).

— Mesh measurement varies according to tray width. Refer to dimensions below.

— Five (5) tray widths available ranging from 2" to 16".

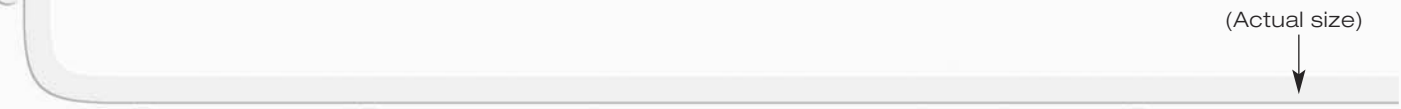
— Available in hot-dipped galvanized steel and stainless steel.

— Temperature range -45°C (-49°F) to 150°C (302°F).

Applications

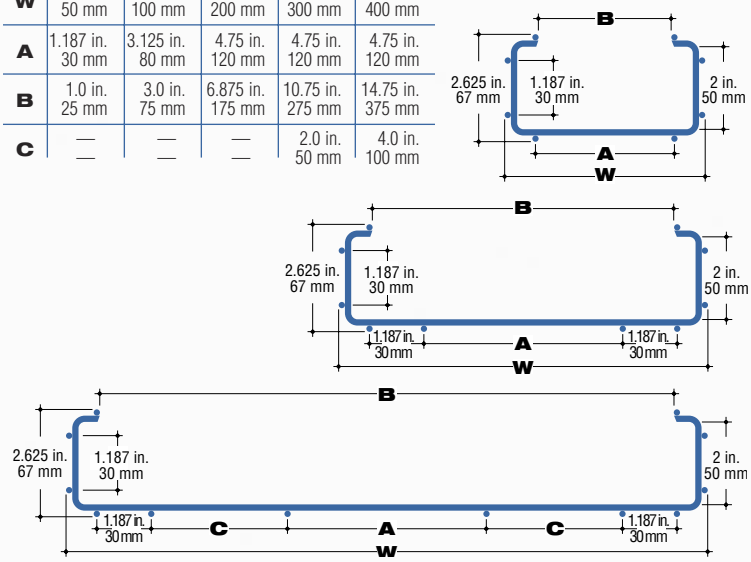
Structured cabling for voice, power and data applications in commercial buildings, industrial facilities, manufacturing plants and outdoor installations.

(Actual size)



Dimensions

Width	2 in. 50 mm	4 in. 100 mm	8 in. 200 mm	12 in. 300 mm	16 in. 400 mm
W	2 in. 50 mm	4 in. 100 mm	8 in. 200 mm	12 in. 300 mm	16 in. 400 mm
A	1.187 in. 30 mm	3.125 in. 80 mm	4.75 in. 120 mm	4.75 in. 120 mm	4.75 in. 120 mm
B	1.0 in. 25 mm	3.0 in. 75 mm	6.875 in. 175 mm	10.75 in. 275 mm	14.75 in. 375 mm
C	— —	— —	— —	2.0 in. 50 mm	4.0 in. 100 mm



Width in.	Width mm	Wire Count
2	50	
4	100	
6	150	—
8	200	
12	300	
16	400	
20	500	—
24	600	—

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T&B® Express Tray

C-Profile

Features

—**Flanged sides**
increase tray rigidity and strength while providing protection and containment for cables.

—**C-profile**
offers increased load capacity in a lower profile.

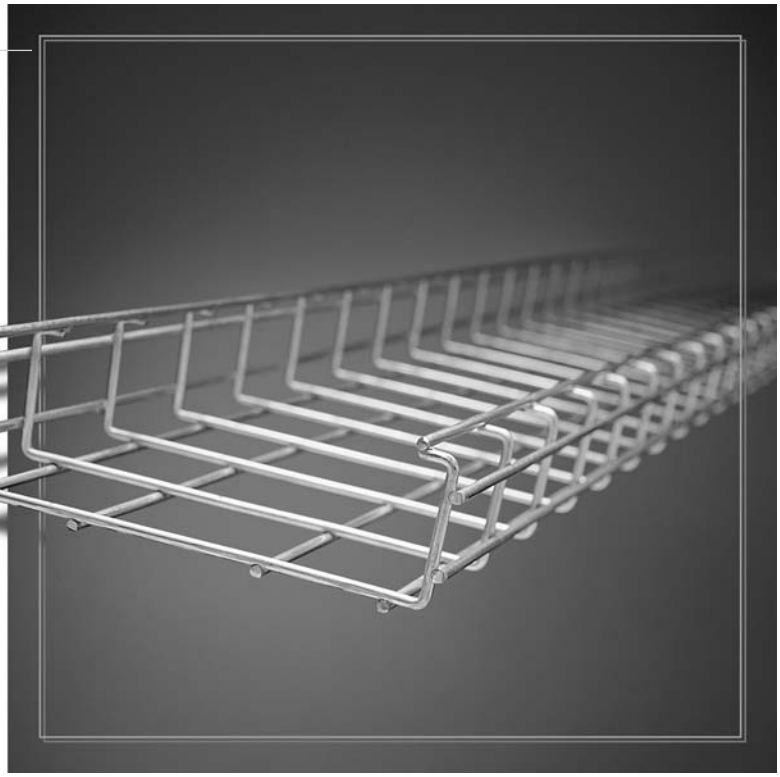
—**High rigidity and loading capabilities**
increase potential for multi-use applications and maximize use of space.

—**User-friendly**
installs in less time than conventional tray with no complex layouts, a minimum of tools and less wasted material.

—**Wide range of tray widths**
2" to 16" widths accommodate as many or as few cables as required.

—**Open design**
allows cables to be routed in or out without cutting wires and provides continuous airflow, preventing overheating and the build-up of dust and contaminants.

—**Chamfered side edge**
minimizes risk of injury for installer and damage to cables during installation.



This profile is not available in electroplated steel.

Outdoor installations exposed to corrosion accelerators, indoor applications requiring more corrosion protection.

Applications requiring the maximum corrosion protection, both indoor and outdoor.

ELECTROPLATED					HOT-DIPPED GALVANIZED					STAINLESS STEEL (Type 304)				
Wire Øin.	Wire Ømm	Catalog Number	Weight lb/ft	Weight kg/m	Wire Øin.	Wire Ømm	Catalog Number	Weight lb/ft	Weight kg/m	Wire Øin.	Wire Ømm	Catalog Number	Weight lb/ft	Weight kg/m
—	—	—	—	—	5/32	3.9	ETC 2502SH10	0.92	1.35	5/32	3.9	ETC 2502SS10	0.92	1.35
—	—	—	—	—	5/32	3.9	ETC 2504SH10	1.01	1.49	5/32	3.9	ETC 2504SS10	1.01	1.49
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	11/64	4.4	ETC 2508SH10	1.21	1.78	11/64	4.4	ETC 2508SS10	1.21	1.78
—	—	—	—	—	3/16	4.8	ETC 2512SH10	1.38	2.03	—	—	—	—	—
—	—	—	—	—	3/16	4.8	ETC 2516SH10	1.57	2.31	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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T&B® Express Tray
L-Profile and Tools

L-Profile

The L-profile T&B® Express Tray uses existing structures, such as columns and beams, to route cables by creating an enclosed space between the tray and structural steel profiles.

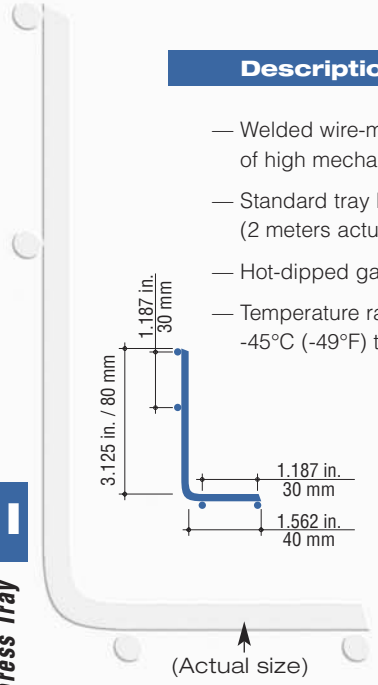
Description

— Welded wire-mesh, cable management system made of high mechanical strength steel wire.

— Standard tray length is 6 feet nominal (2 meters actual).

— Hot-dipped galvanized finish.

— Temperature range -45°C (-49°F) to 150°C (302°F).



Applications

Structured cabling for voice, power and data applications in commercial buildings, industrial plants, manufacturing facilities and outdoor installations.

Warning:
Drilling holes and welding directly onto I-beams is prohibited by Building Codes. Use beam clamps shown on page I22.

Catalog number	Weight	
	lb/ea.	kg/ea.
ETL3001SH6	0.44	0.20

Angular Offset Wire Cutters & Nut Drivers

The T&B® Express Tray cable management system is designed to adapt quickly and easily to changing specifications and project requirements. All tray is cut to measure on the job site using these top quality, angular offset wire cutters, bent to the correct radius and then installed using the nut driver and the appropriate T&B® Express Tray hardware and supports.

For the best results, always use T&B® Express Tray wire cutters. With blades made of hardened steel alloy, these wire cutters are easy to use and produce a quick, clean cut. Refer to Figure 1 for correct tool positioning and Figure 2 for wire cutting order. Place all T&B® Express Tray bottom-side up before cutting for optimum results.

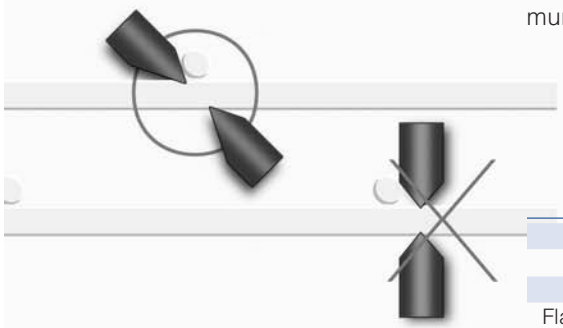


Figure 1- Correct positioning
Position the blades on the cross wire and cut away from the new end.

Item	Catalog number	Overall Length		Weight	
		inch	cm	lb/ea.	kg/ea.
Wire Cutter	**ET-TOOL**	26.0	66.0	6.00	2.72
Nut Driver	**ET-DRIVER**	6.5	16.5	0.22	0.10
Nut Socket	**ET-SOCKET**	2.5	6.4	0.07	0.03
Flat Double Cut File	**ET-FILE**	12.0	30.0	0.22	0.10

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T&B® Express Tray

L-Profile and Tools

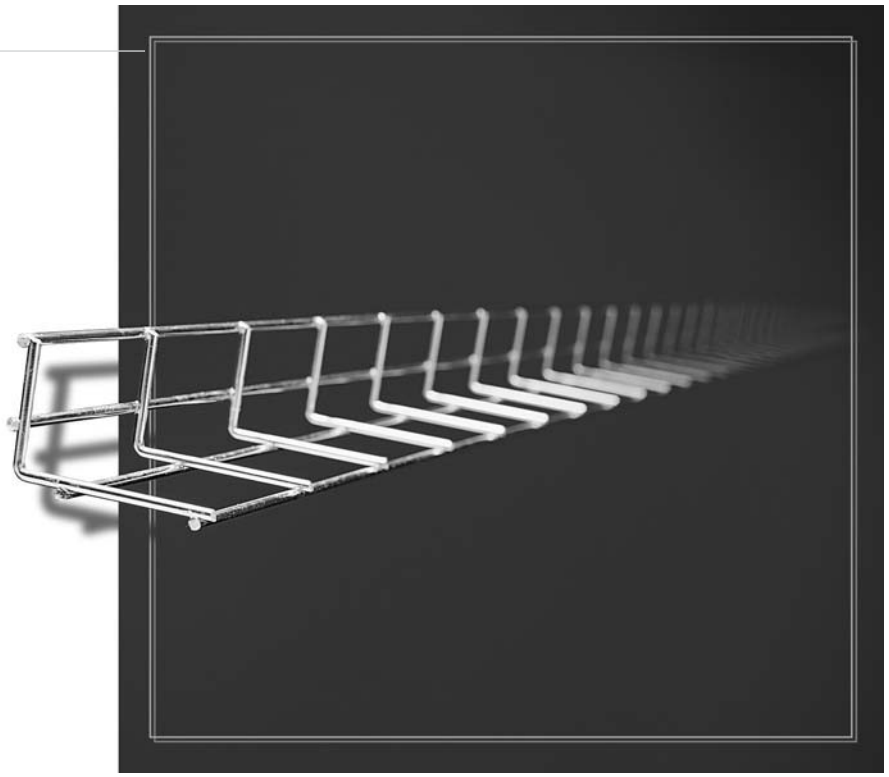
Features

—**Angled design**
makes use of existing structures for drops and runs, simplifying installation.

—**User-friendly**
installs in less time than conventional tray with no complex layouts, a minimum of tools and less wasted material.

—**Open design**
allows cables to be routed in or out without cutting wires and provides continuous airflow, preventing overheating and the build-up of dust and contaminants.

—**Chamfered side edge**
minimizes risk of injury for installer and damage to cables during installation.



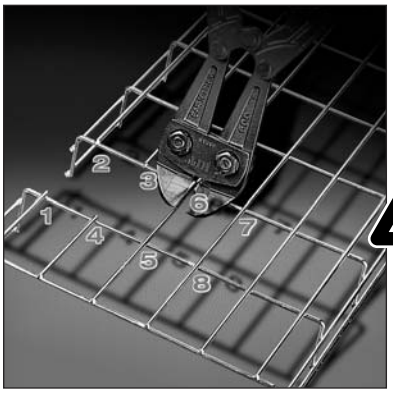
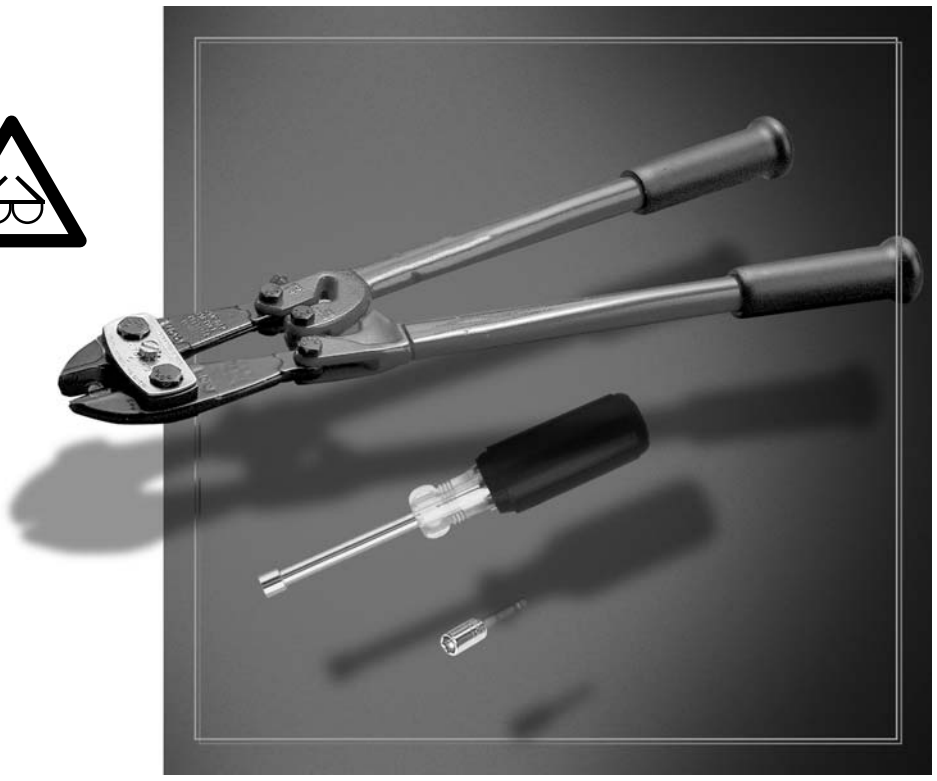


Figure 2- Cutting order
Place tray bottom-side up and cut wires in the order indicated.

Wear safety glasses when cutting tray.

WARNING:
Wire cutters often leave sharp projections on the cut wire. For optimum safety, Thomas & Betts strongly recommends that all sharp ends be removed with an electric grinder or file.



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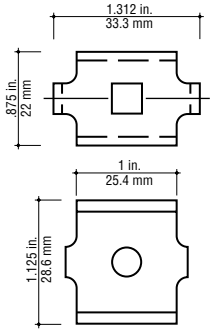
Universal Splice

Dimensions



Material	Catalog number	Weight lb/ea.	Weight kg/ea.
Hot-dipped Galvanized Steel	**ETH-SP-HD**	0.07	0.03
Stainless Steel (Type 304)	**ETH-SP-SS**	0.07	0.03

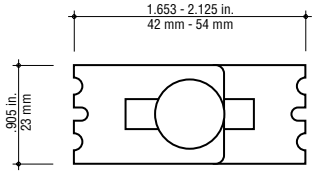
The most widely used connection method for non-radiused bends or joints, the universal splice is compatible with all profiles and is offered in hot-dipped galvanized steel and stainless steel.

Refer to pages I26, I27, I28 and I29 for application examples.

Tool required: 10mm nut driver

Adjustable Splice

Dimensions



Material	Catalog number	Weight lb/ea.	Weight kg/ea.
Hot-dipped Galvanized Steel	**ETH-ADJSP-HD**	0.07	0.03
Stainless Steel (Type 304)	**ETH-ADJSP-SS**	0.07	0.03

Used to construct angles or bends with a radius, the adjustable splice is designed for ease of installation when field-producing bends. Installed on the inside radius, this splice adjusts up to ½" and is ideally suited for any application where adjustment may be necessary. The adjustable splice is offered in hot-dipped galvanized steel and stainless steel and is compatible with all tray profiles.

Refer to pages I26 and I29 for application examples.

Tool required: 10mm nut driver

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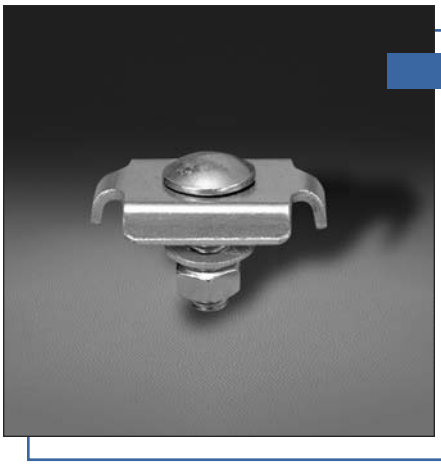
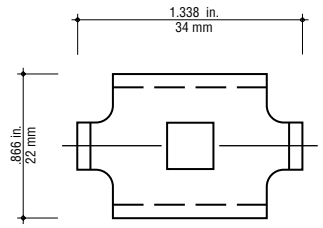
Bracket Clamp



Dimensions



The bracket clamp is used for mounting tray to wall brackets or suspended support brackets and is compatible with all tray profiles. Available in hot-dipped galvanized steel and stainless steel.

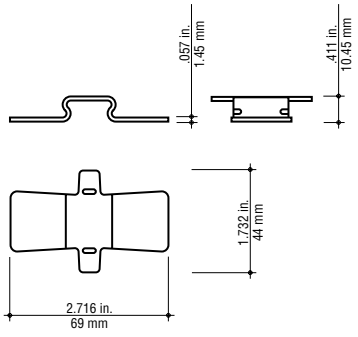
Refer to pages I31 and I34 for application examples.

Material	Catalog number	Weight	
		lb/ea.	kg/ea.
Hot-dipped Galvanized Steel	**ETH-WBC-HD**	0.04	0.02
Stainless Steel (Type 304)	**ETH-WBC-SS**	0.04	0.02

Tool required: 10mm nut driver

Quick Splice

Dimensions



For quick connection of tray without the use of nuts or bolts. Available in three sizes for quick splicing of the complete range of T&B® Express Tray wire diameters. Two-step connection system: 1. Mount quick splice. 2. Use screwdriver to bend tabs inward and the connection is complete.

For use with tray widths	Catalog number	Weight	
		lb/ea.	kg/ea.
2", 4" and 6"	**ETH-QSS-PG**	0.08	0.04
8" and 12"	**ETH-QSM-PG**	0.08	0.04
16", 20" and 24"	**ETH-QSL-PG**	0.08	0.04

Refer to page I26 for an application example.

Tool required: screwdriver

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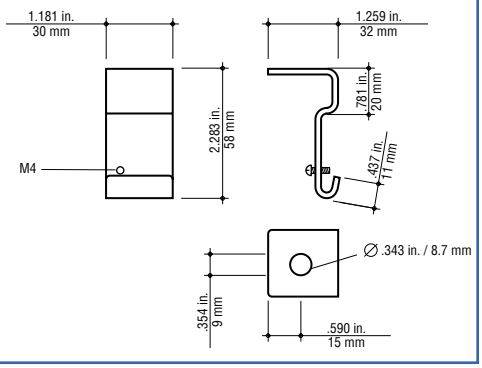
Side Hanger Clamp

Dimensions



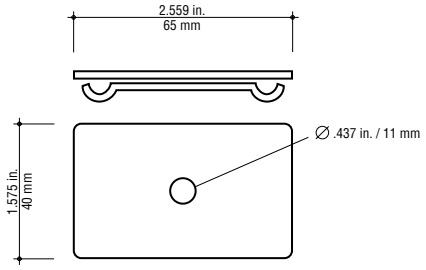
The side hanger clamp is used to construct trapeze supports using threaded rods. The offset support hole allows for trouble-free access to support nuts for height adjustment and the rod can continue downward to allow for multi-level (tiered) trapeze installations. A set screw holds tray firmly in position once installation is complete. Available in pregalvanized steel. For use with ¼" threaded rod.

Material	Catalog number	Weight	
		lb/ea.	kg/ea.
Pregalvanized Steel	**ETH-SH-PG**	0.85	0.39

Refer to page I33 for an application example.

Threaded Rod Clamp

Dimensions



This clamp is used for center-hung applications to secure tray sections to threaded rod for ceiling mounting and can be used with U-profile tray in 4", 8" and 12" widths. This clamp is not designed for use with C-profile tray. Available in pregalvanized steel. For use with ⅜" threaded rod.

Hole Ø		Catalog number	Weight	
in.	mm		lb/ea.	kg/ea.
0.437	11.0	**ETH-CHC-PG**	0.18	0.08

Refer to page I32 for an application example.

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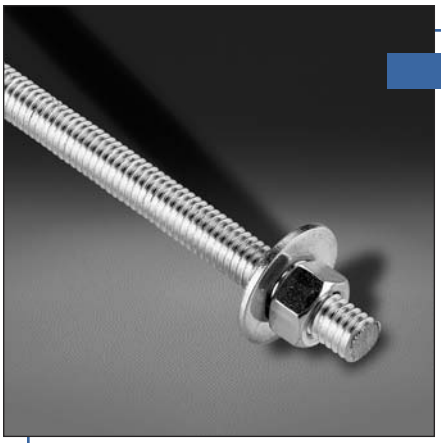
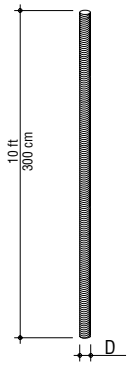
Superstrut® Threaded Rod



Dimensions



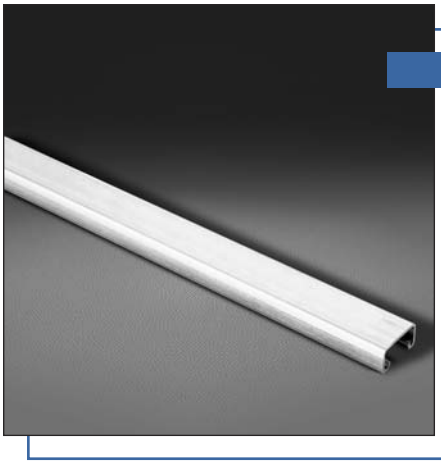
Size (D)	Thread per in.	Catalog number	Weight lb/length	Weight kg/length
1/4 in. dia.	20	**H104-1/4X10EGC**	1.25	0.57
3/8 in. dia.	16	**H104-3/8X10EGC**	1.25	0.57

Used for overhead mounting of T&B® Express Tray with threaded rod clamp, side hanger clamps or strut. Available in ¼" and ⅜" diameters, threaded rods are made of electroplated steel.

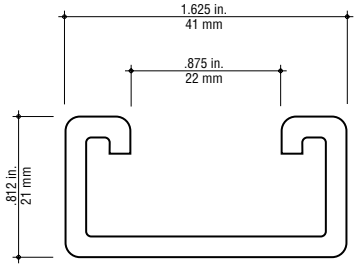
Order nut and washer separately. (See page I16).

Refer to pages I32 and I33 for application examples.

Superstrut® (Metal Framing Channel)



Dimensions



Material	Catalog number	Weight lb/ea.	Weight kg/ea.
Pregalvanized Steel	**B120010PGC**	12.80	5.80

Superstrut® metal framing channel is sold in 10-foot lengths and the standard finish is pregalvanized steel. Strut is unpunched (not perforated) and must be field-cut and drilled for customized supports with maximum economy. Other finishes and configurations are available, contact your Regional Sales Office for further information.

Refer to page I33 for an application example.

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Superstrut® Hexagonal Nut

Order for use with Superstrut® threaded rod. Available in two sizes, ¼" and ⅜", in electro-plated steel.

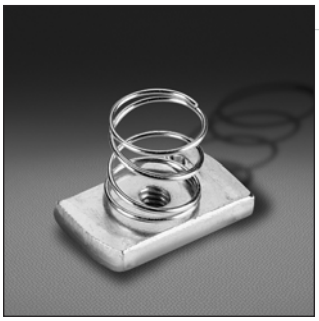
Size	Catalog number	Weight	
		lb/ea.	kg/ea.
1/4 in. hex nut	**E145-1/4EGC**	0.01	0.004
3/8 in. hex nut	**E145-3/8EGC**	0.01	0.004

Superstrut® Flat Washer

Order for use with Superstrut® threaded rod and hex nut. Available in ¼" and ⅜" sizes in electroplated steel.

Size	Catalog number	Weight	
		lb/ea.	kg/ea.
1/4 in. flat washer	**E147-1/4EGC**	0.03	0.02
3/8 in. flat washer	**E147-3/8EGC**	0.04	0.02

Superstrut® Spring Nut



For use with B-Series metal framing channel (see page I15), spring nuts are offered in ¼" and ⅜" sizes in electroplated steel.

Size	Catalog number	Weight	
		lb/ea.	kg/ea.
1/4 in. spring nut	**B100-1/4EGC**	0.44	0.20
3/8 in. spring nut	**B100-3/8EGC**	0.46	0.20

Ty-Rap® Cables Ties

Ty-Rap® weather-stabilized cable ties can be used for wire bundling and attachment, indoors or outdoors, and are offered in black nylon and four sizes for use with T&B® Express Tray. Other sizes, colours and types are available from Thomas & Betts. Contact your Regional Sales Office for details.

Body width		Length		Max. wire bundle dia.		Catalog number	Weight	
in.	mm	in.	mm	in.	mm		lb/100	kg/100
0.18	4.67	7.31	185.67	1.75	45	**TY525MX**	0.33	0.15
0.18	4.67	11.40	289.56	3.00	76	**TY5253MX**	0.46	0.21
0.18	4.67	14.20	360.68	4.00	101	**TY528MX**	0.55	0.25
0.27	6.86	18.00	457.20	5.00	127	**TY5275MX**	1.51	0.68

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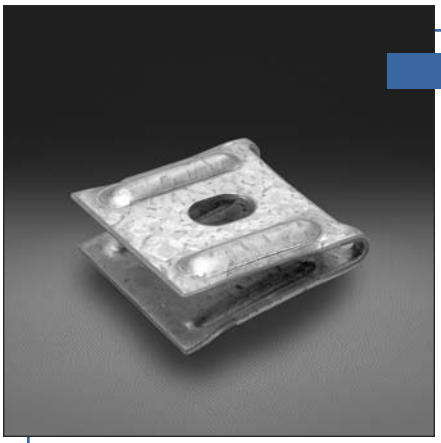
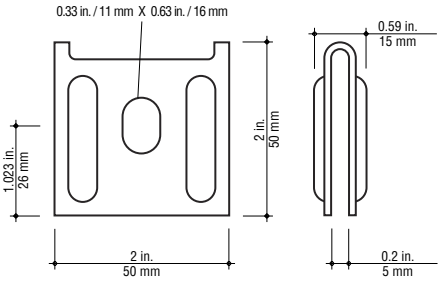
Wall Clamp



Dimensions



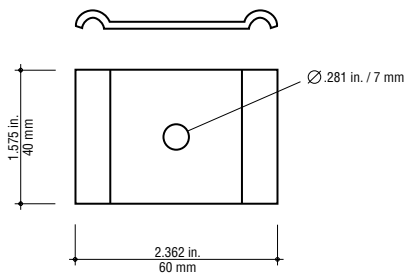
This wall clamp attaches the flange of U- and C-profile T&B® Express Tray, up to a maximum of 8" wide, to the wall surface. Available in pregalvanized steel and stainless steel.

Refer to page I30 for an application example.

Material	Catalog number	Weight	
		lb/ea.	kg/ea.
Pregalvanized Steel	**ETH-WC-PG**	0.39	0.18
Stainless Steel (Type 304)	**ETH-WC-SS**	0.39	0.18

Universal Clamp

Dimensions



The universal clamp is designed for mounting T&B® Express Tray to wall brackets, strut or trapeze configurations and is available in pregalvanized steel.

Refer to pages I30 and I33 for application examples.

Material	Catalog number	Weight	
		lb/ea.	kg/ea.
Pregalvanized Steel	**ETH-UNIVC-PG**	0.44	0.20
Hot-dipped Galvanized Steel	**ETH-UNIVC-HD**	0.44	0.20

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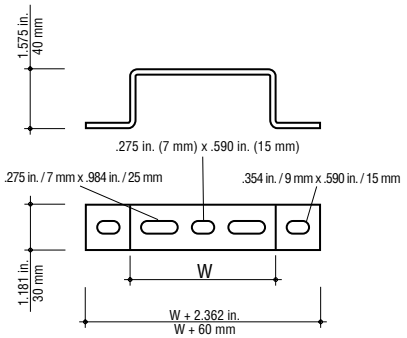
Stand-Off Bracket

Dimensions



For use in attaching U- and C-profile T&B® Express Tray to floors or walls, the stand-off bracket raises the tray away from the mounting surface. Available in 4", 6", 8", 12" and 16" widths, this bracket is available in hot-dipped galvanized steel.

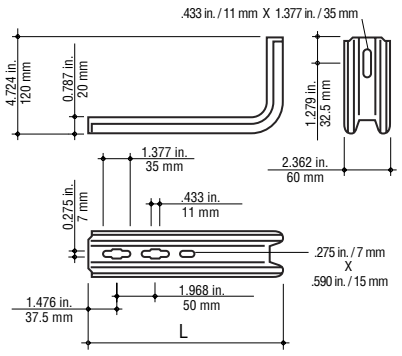
Use in conjunction with bracket clamp on page I13.

Width (W)		Catalog number	Material thickness		Weight	
in.	mm		in.	mm	lb/ea.	kg/ea.
4	100	**ETB-2004-HD**	.125	3	0.35	0.16
6	150	**ETB-2006-HD**	.125	3	0.43	0.19
8	200	**ETB-2008-HD**	.125	3	0.50	0.23
12	300	**ETB-2012-HD**	.156	4	0.84	0.38
16	400	**ETB-2016-HD**	.156	4	1.05	0.47

Refer to page I30 for an application example.

"L" Bracket

Dimensions



The "L" bracket provides an attachment surface for T&B® Express Tray on ceilings, walls and floors and is available in six sizes for use with the full range of U- and C-profiles. This bracket attaches to the tray with standard bracket clamps (see page I13). Available in pregalvanized steel.

Length (L)		Catalog number	Weight	
in.	mm		lb/ea.	kg/ea.
6	145	**ETB-L06-PG**	0.72	0.33
10	245	**ETB-L10-PG**	1.03	0.47
14	345	**ETB-L14-PG**	1.34	0.60
18*	445	**ETB-L18-PG**	1.65	0.75
21*	545	**ETB-L21-PG**	1.96	0.89
25*	645	**ETB-L25-PG**	2.27	1.03

Refer to page I31 for an application example.

* For use as vertical support only. Not to be used as horizontal bracket.

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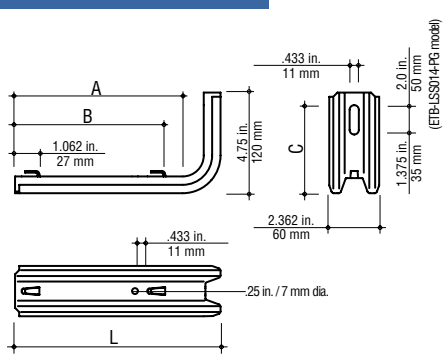
Speed Mount "L" Bracket

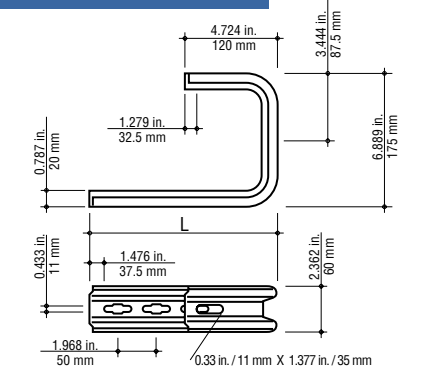


The Speed Mount "L" bracket provides a quick and cost-efficient support surface for T&B® Express Tray on ceilings, walls and floors. This bracket attaches to the tray using bend-down tabs rather than hardware, speeding-up the installation process. Available in pregalvanized steel and four sizes for mounting 4", 6", 8" and 12" U- and C-profiles.

Length (L)		A		B		C		Catalog number	Weight	
in.	mm	in.	mm	in.	mm	in.	mm		lb/ea.	kg/ea.
6	145	4	100	3.06	77	3.94	99	**ETB-LS06-PG**	0.72	0.33
8	200	5	127	4.31	109	3.94	99	**ETB-LS08-PG**	0.97	0.44
10	245	8	200	7.00	177	3.43	87	**ETB-LS10-PG**	1.03	0.47
14	345	12	300	11.00	277	3.43	87	**ETB-LS14-PG**	1.34	0.61

Refer to page I31 for an application example.

"J" Bracket



The "J" bracket provides an attachment surface for mounting T&B® Express Tray to ceilings. This bracket is available in 6", 10" and 14" lengths to accommodate U- and C-profiles of up to 12" wide and 2" high. Available in pregalvanized steel. Use in conjunction with bracket clamp on page I13.

Length (L)		Catalog number	Weight	
in.	mm		lb/ea.	kg/ea.
6	145	**ETB-J06-PG**	1.04	0.47
10	245	**ETB-J10-PG**	1.32	0.60
14	345	**ETB-J14-PG**	1.61	0.73

Refer to page I34 for an application example.

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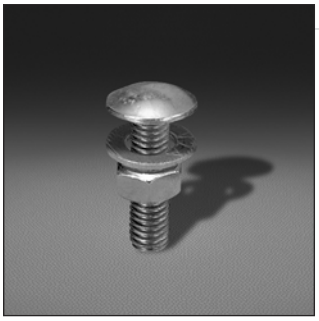
Spacers

The spacer is used to prevent spreading of the bracket profile during installation. Spacers can be used with both "L" and "J" brackets in both single and back-to-back configurations. Available in pregalvanized steel.

Refer to pages I31, I32 and I34 for application examples.

Material	Catalog number	Weight lb/ea.	Weight kg/ea.
Pregalvanized Steel	**ETH-S-PG**	0.08	0.04

Standard Bolting Kit



The standard bolting kit consists of an M6 x 20mm carriage bolt, a flat washer and a nut. Available in hot-dipped galvanized and stainless steel.

Tool required:
10mm nut driver

Material	Catalog number	Weight lb/ea.	Weight kg/ea.
Hot-dipped Galvanized Steel	**ETH-KIT0-HD**	0.07	0.03
Stainless Steel (Type 304)	**ETH-KIT0-SS**	0.07	0.03

Nested "J" or "L" Bracket Bolting Kit

For use with "J" and "L" brackets, this bracket bolting kit consists of an M10 x 25mm carriage bolt, a flat washer and a nut. Available in hot-dipped galvanized steel.

Refer to page I31 for an application example.

Tool required:
17mm nut driver

Material	Catalog number	Weight lb/ea.	Weight kg/ea.
Hot-dipped Galvanized Steel	**ETH-KIT1**	0.18	0.08

Back-To-Back Bracket Bolting Kit

For use in back-to-back bracket configurations or for use with "L " brackets, this bracket bolting kit consists of a hexagonal M10 x 60mm bolt, a flat washer, a lock washer and a nut. Available in hot-dipped galvanized steel.

Refer to page I32 for an application example.

Tool required:
17mm nut driver

Material	Catalog number	Weight lb/ea.	Weight kg/ea.
Hot-dipped Galvanized Steel	**ETH-KIT2**	0.26	0.12

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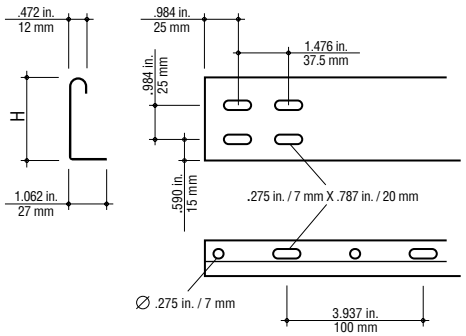
Barrier Strip

Dimensions



Used to separate bundles of power, communication and data cables. Barrier strips are sold in standard 10-foot lengths and are available in 1⅜", 1¾" and 3⅜" heights. Available in pregalvanized steel.

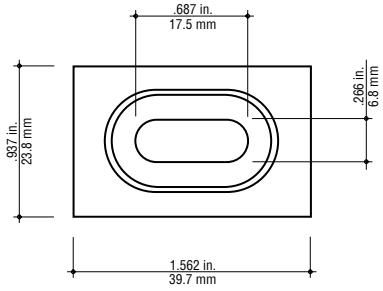
For use with barrier strip clamp shown below and barrier strip connector on page I22.

Height (H)		Catalog number	Weight	
in.	mm		lb/length	kg/length
1.375	350	**ET-BS138-PG**	0.61	0.28
1.750	450	**ET-BS175-PG**	0.63	0.29
3.375	850	**ET-BS338-PG**	1.36	0.62

Refer to page I35 for an application example.

Barrier Strip Clamp

Dimensions



The barrier strip clamp is used to mount barrier strips to U- and C-profile T&B® Express Tray. Available in hot-dipped galvanized steel and stainless steel.

Refer to page I35 for an application example.

Material	Catalog number	Weight	
		lb/ea.	kg/ea.
Hot-dipped Galvanized Steel	**ETH-BSC-HD**	0.07	0.03
Stainless Steel (Type 304)	**ETH-BSC-SS**	0.07	0.03

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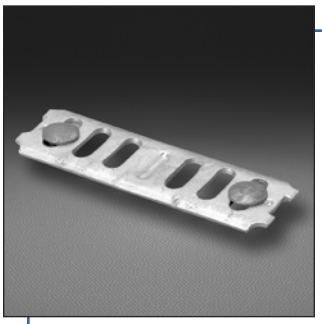
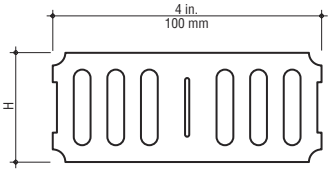
Barrier Strip Connector



Dimensions

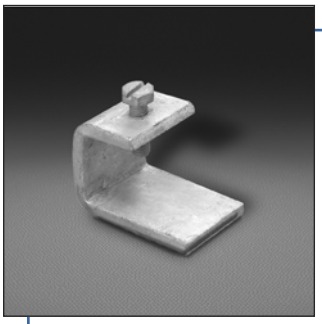


This connector is used to connect lengths of barrier strips and is available in two sizes for use with 1⅜", 1¾" and 3⅜" barrier strips. Available in hot-dipped galvanized steel.

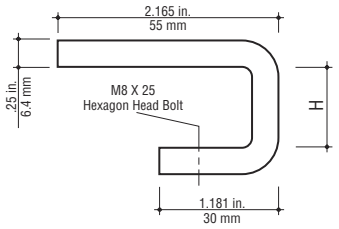
Height (H)		Catalog number	To use with barrier strip	Weight	
in.	mm			lb/ea.	kg/ea.
1.22	31	**ET-BSH138-HD**	ET-BS138-PG	0.02	0.01
1.62	41	**ET-BSH175-HD**	ET-BS175-PG, ET-BS338-PG	0.04	0.02

Refer to page I35 for an application example.

Beam Clamp



Dimensions



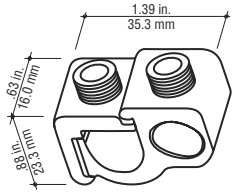
This clamp is used primarily to attach L-profile T&B® Express Tray to steel beams. It can also be used to attach U- and C-profiles onto structural steel. Available in ¾" and 1⅛" sizes in hot-dipped galvanized steel.

Height (H)		Catalog number	Weight	
in.	mm		lb/ea.	kg/ea.
0.750	20	**ETH-IBC3/4-HD**	0.44	0.20
1.125	30	**ETH-IBC1-HD**	0.47	0.22

Refer to page I35 for an application example.

Blackburn® Grounding Connector

Dimensions



The GPT-2 grounding connector is used for bonding applications not exceeding 300 amps (as per table 16 of CEC) and is ideal for conductors #8 to #2 AWG. For applications requiring larger conductors, contact your T&B Regional Sales Office.

Conductor Range	Catalog number	Weight	
		lb/ea.	kg/ea.
#8 - #2 AWG	**GPT-2**	0.06	0.03

Refer to page I35 for an application example.

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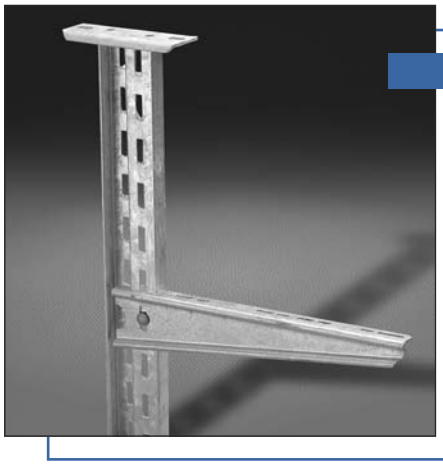
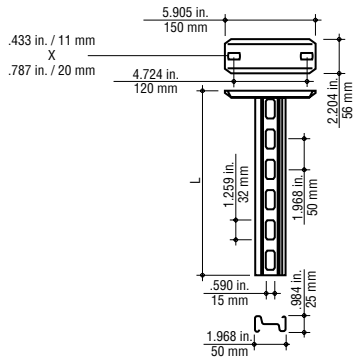
Vertical Post/Bracket

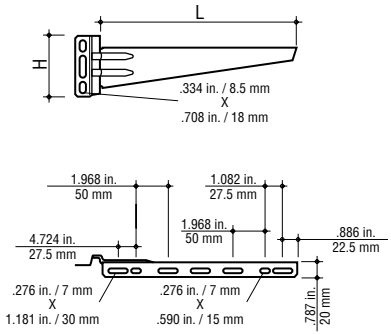


Dimensions

POST



BRACKET



Posts

Length (L) in.	Length (L) mm	Catalog number	Weight lb/ea.	Weight kg/ea.
12	300	**ETP-12-HD**	2.00	0.91
16	400	**ETP-16-HD**	2.30	1.04
20	500	**ETP-20-HD**	2.60	1.18
24	600	**ETP-24-HD**	2.90	1.32
28	700	**ETP-28-HD**	3.20	1.45
32	850	**ETP-32-HD**	3.50	1.59
36	900	**ETP-36-HD**	3.80	1.72
40	1000	**ETP-40-HD**	4.10	1.86
44	1100	**ETP-44-HD**	4.40	2.00
48	1200	**ETP-48-HD**	4.70	2.14

Brackets

Length (L) in.	Length (L) mm	Material	Catalog number	Weight lb/ea.	Weight kg/ea.
4	105	Pregalvanized Steel	**ETCB-04-PG**	0.33	0.15
8	205	Pregalvanized Steel	**ETCB-08-PG**	0.55	0.25
12	305	Pregalvanized Steel	**ETCB-12-PG**	0.90	0.41
16	405	Pregalvanized Steel	**ETCB-16-PG**	1.18	0.54
4	105	Hot Dipped Galvanized Steel	**ETCB-04-HD**	0.34	0.15
8	205	Hot Dipped Galvanized Steel	**ETCB-08-HD**	0.57	0.26
12	305	Hot Dipped Galvanized Steel	**ETCB-12-HD**	0.93	0.42
16	405	Hot Dipped Galvanized Steel	**ETCB-16-HD**	1.12	0.51

For heavy-duty applications the vertical post is mounted on ceilings or overhead steel girders. The clamping bracket is installed on the post as a horizontal support for the T&B® Express Tray. Posts are offered in hot-dipped galvanized finish and sizes ranges from 12" to 48" long. Brackets are available in five lengths and come in pregalvanized and hot-dipped galvanized steel.

Post and bracket are sold separately. Attachment hardware is supplied with bracket.

Refer to page I34 for an application example.

Protection Cap

Designed for use in terminating vertical posts to increase safety in low overhead areas. The protection cap is offered in red polyethylene.

Material	Catalog number	Weight lb/ea.	Weight kg/ea.
Red Polyethylene	**ETH-PC**	0.02	0.01

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T&B® Express Tray

Quick Reference

Complicated cable routing layouts become simpler with T&B® Express Tray Once familiar with the basic configuration and support methods, the possibilities are unlimited. Use the following pages as a guide to T&B® Express Tray basics and as an inspiration for future projects.

For more detailed information, refer to the Installation Guide available from your Thomas & Betts Regional Sales Office.

Configuration Methods

A — Connection of Straight Sections . . . . . page I26

B — Horizontal Bend with a Radius . . . . . page I26

C — Horizontal Bend without a Radius (90˚) . . . . . page I27

D — Vertical Bend with a Radius . . . . . page I27

E — Vertical Bend without a Radius . . . . . page I28

F — Vertical Drop . . . . . page I28

G — Reduction/Expansion . . . . . page I29

H — Horizontal Tee or Cross . . . . . page I29

Support Methods

1 — Stand-Off Brackets . . . . . page I30

2 — Wall Clamp Attachment . . . . . page I30

3 — Wall mounted “L” Brackets . . . . . page I31

4 — Tiered Brackets . . . . . page I31

5 — Back-to-Back Brackets . . . . . page I32

6 — Center-Hung Clamp . . . . . page I32

7 — Side Hangers . . . . . page I33

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11 — Beam Clamp . . . . . page I35

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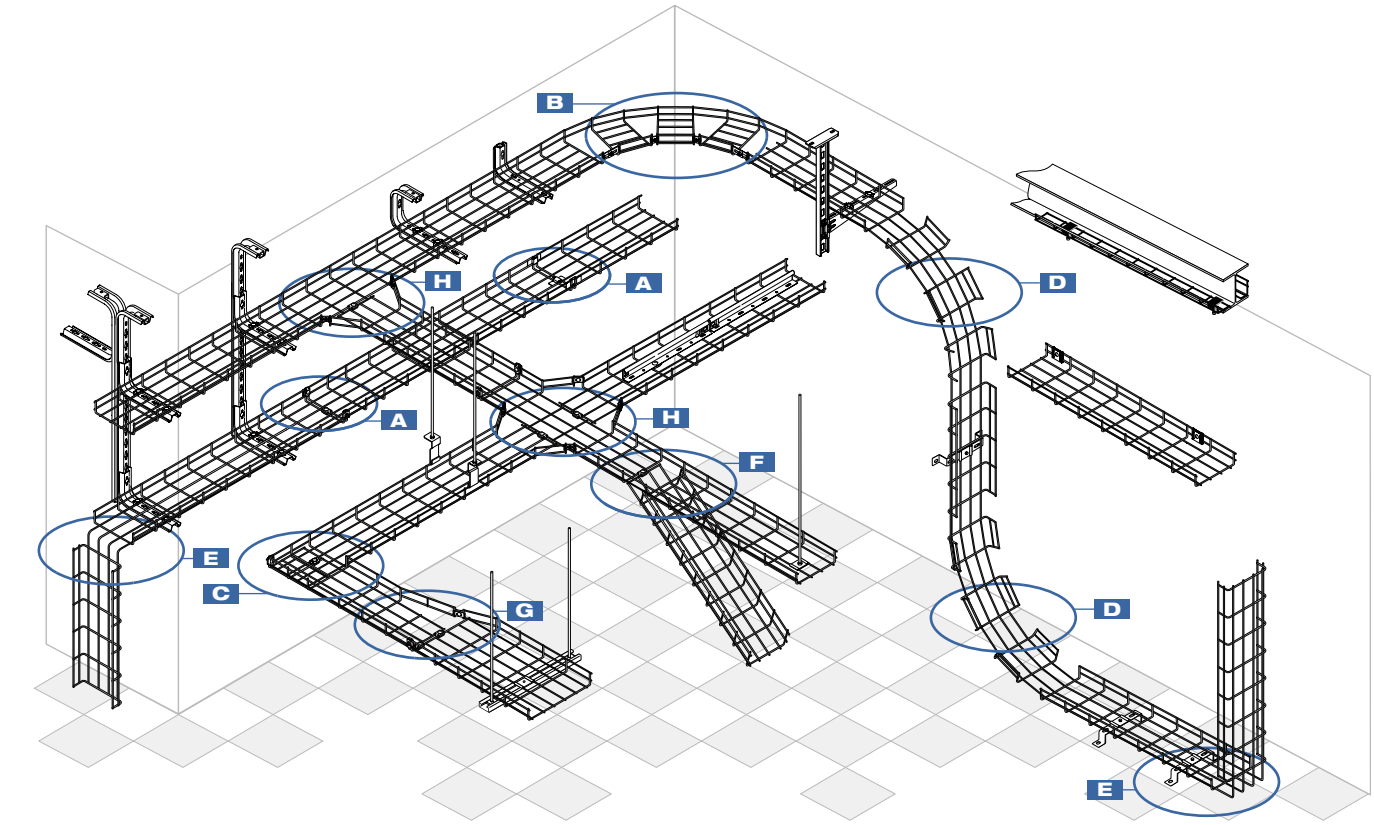
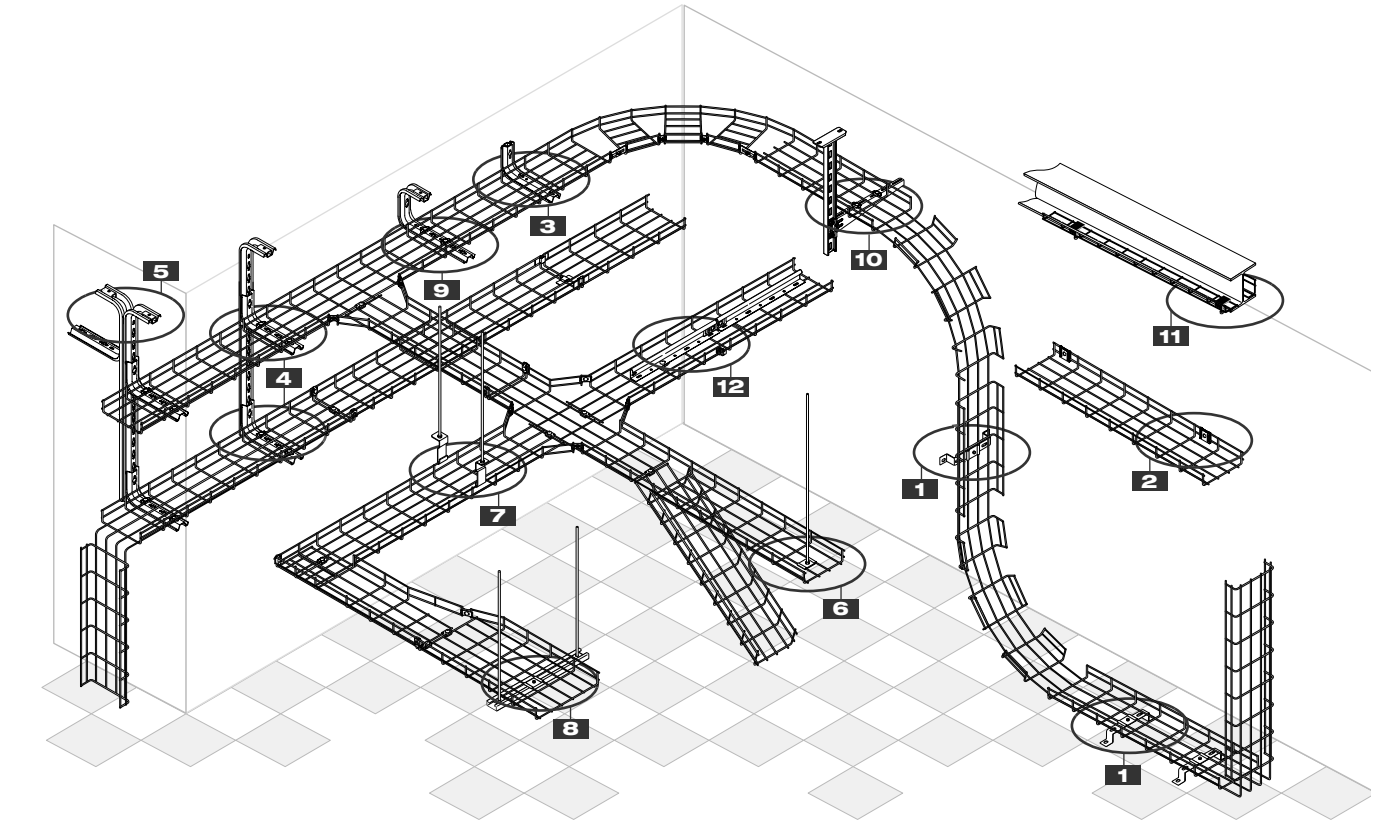
T&B® Express Tray

Quick Reference





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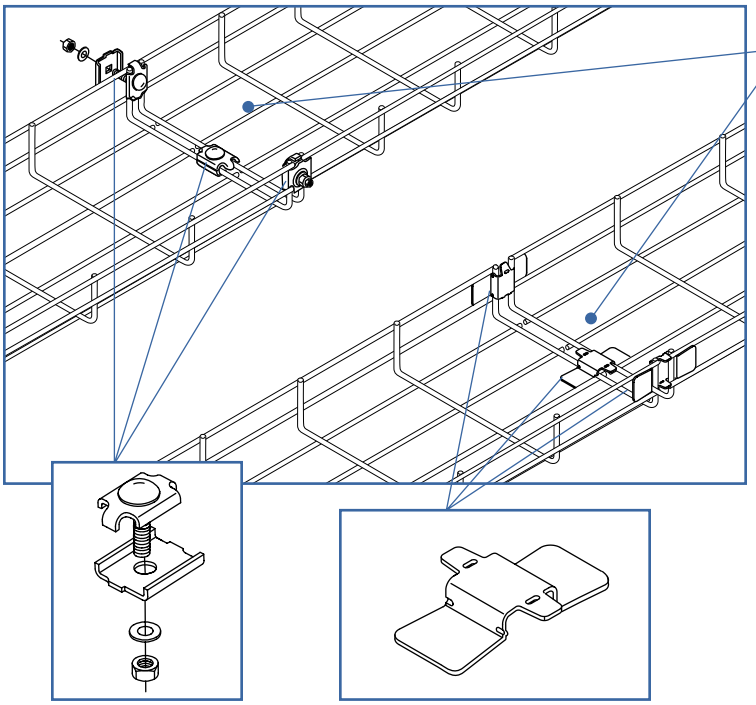
T&B® Express Tray
Configuration Methods

A — Connection of Straight Sections

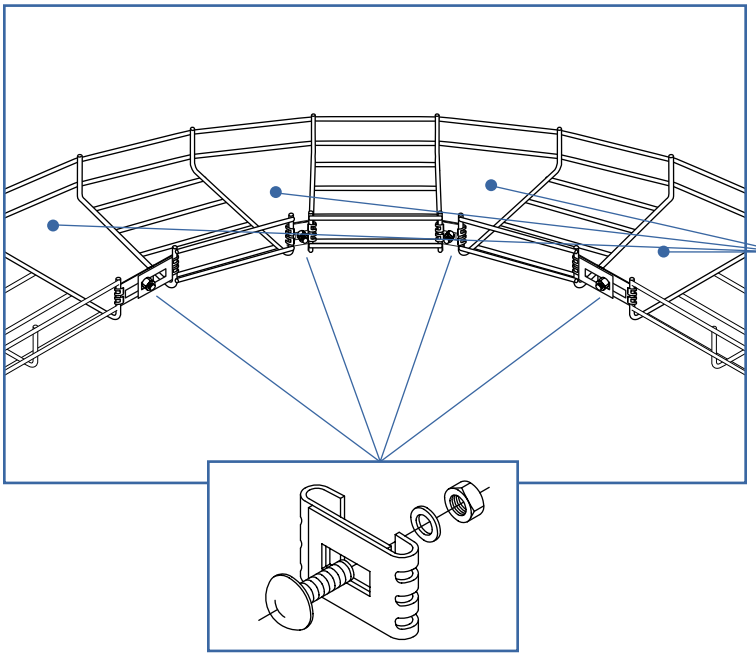


To join lengths of T&B® Express Tray, attach the sections using either the Universal Splice shown on page I12 or the Quick Splice shown on page I13.

For either attachment method, align the two lengths of tray and splice together the top siderail wires and tray bottoms. The number and positioning of splices will vary according to the tray width selected. Refer to table below for exact quantities.

Tray Width		Quantity needed
in.	mm	
2	50	2
4	100	2
6	150	3
8	200	3
12	300	3
16	400	4
20	500	5
24	600	5

B — Horizontal Bend with a Radius



T&B® Express Tray allows you to redirect cabling routing simply and easily. To form a horizontal bend with a radius, no additional corner or elbow components are required.

Simply cut the bottom and internal side wires, bend to the desired angle and secure the inside bend with the Adjustable Splice found on page I12 of this catalog.

The number of splices required will vary according to the bend and radius configuration.

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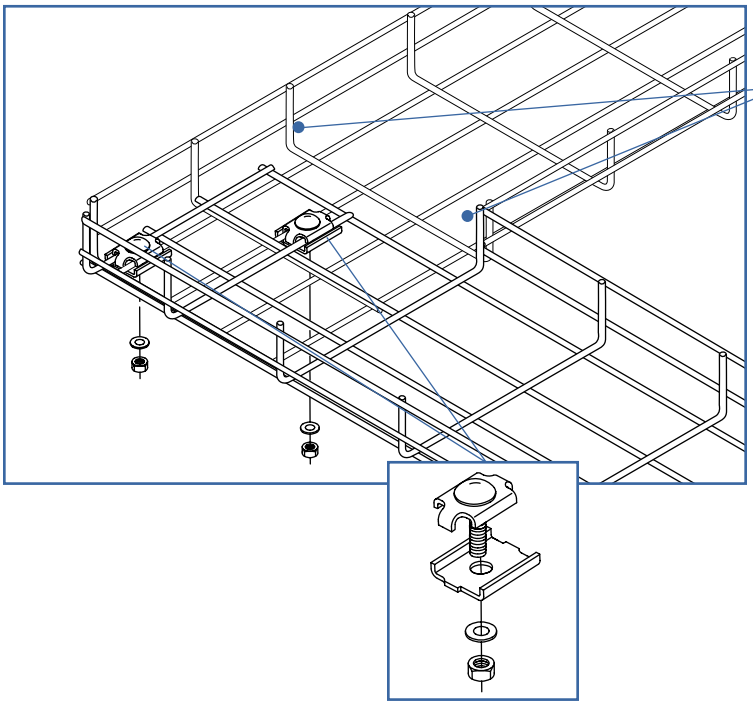
C — Horizontal Bend without a Radius (90˚)

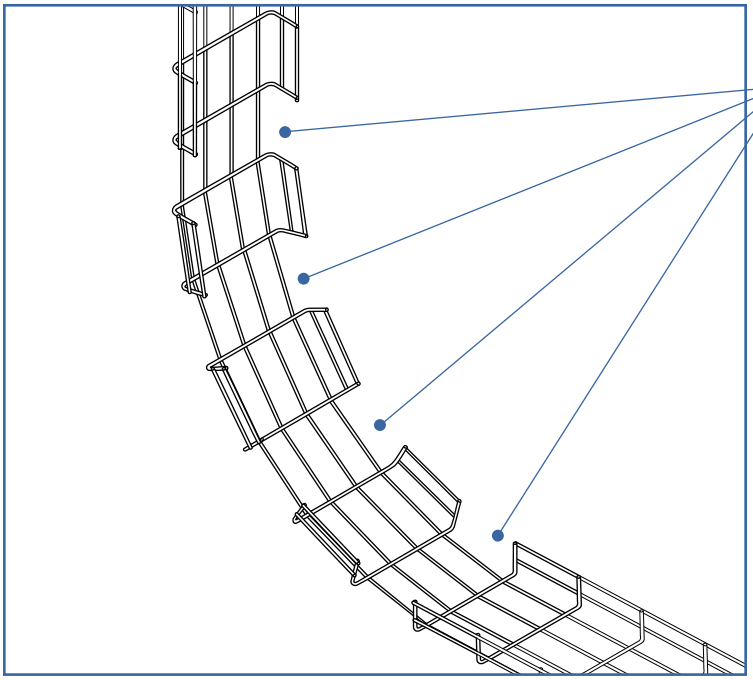


To form a 90˚ bend or an angled bend without a radius, use two straight sections of tray. Cut and remove side wires (cut back to first complete grid). The number of wires to cut will vary according to the tray width.

Assemble trays, one perpendicular to the other, and secure using the Universal Splice found on page I12.

The number of universal splices required will vary according to the tray width selected.

D — Vertical Bend with a Radius



Changing levels using vertical inside and outside bends is easy with T&B® Express Tray. Simply cut and remove side wires and form to desired bend radius—it's that easy. No additional hardware is required.

The number of side wires removed will depend on the angle and radius required. For sharper descents refer to 90˚ bend (E) on page I28.

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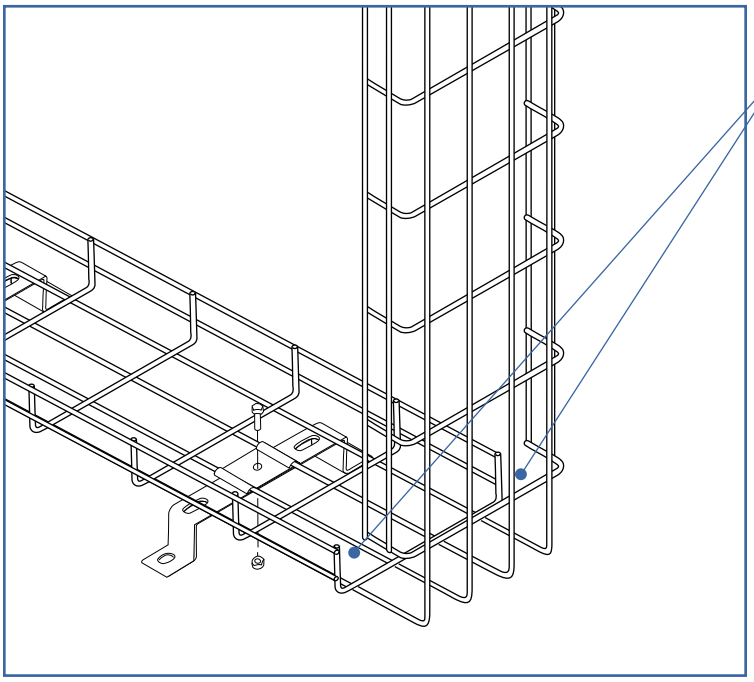
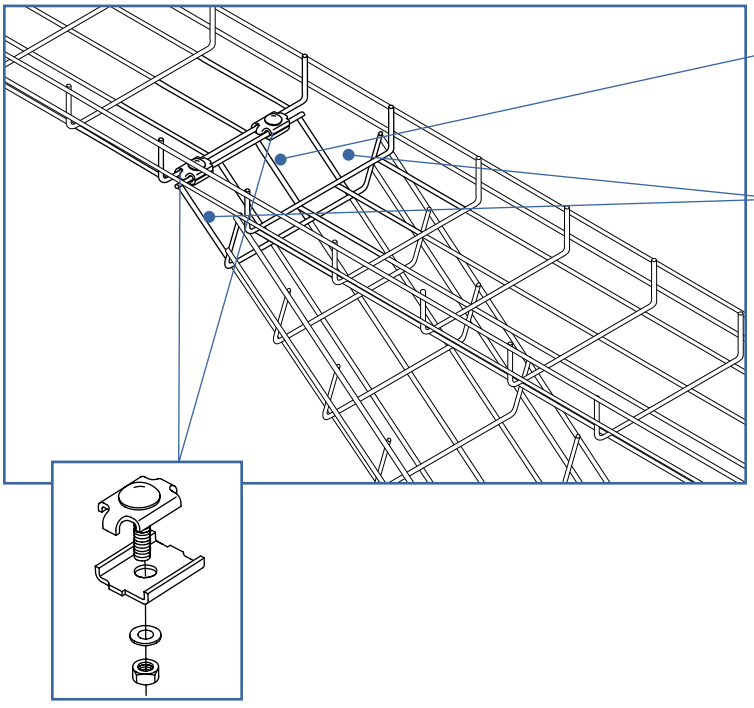
E — Vertical Bend without a Radius (90˚)



To create a 90˚ vertical bend, remove one section of side wires on each side of the tray at the point where the angle is required and bend into position.
No additional hardware is required.

F — Vertical Drop



To redirect select cables from a main run, cut and remove bottom wires of tray in accordance with space required for tray intersection.

Remove side wires on vertical tray at point of intersection with original tray. Secure tray using universal splice on page I12.

This configuration can also be used to route additional cables into main cable runs from below.

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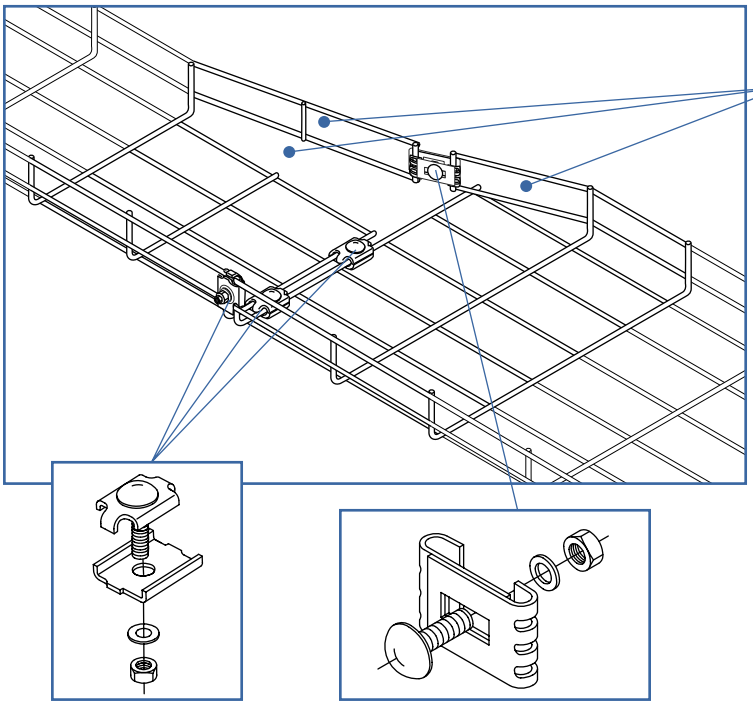
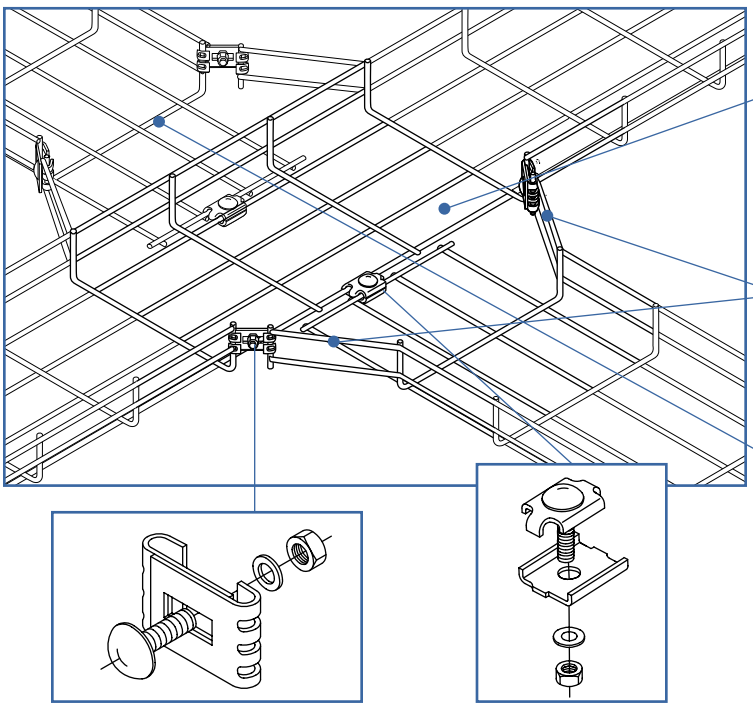
G — Reduction / Expansion



To make the most efficient and economical use of space, it is often necessary to make reductions and expansions of tray widths. To connect two unequal widths of T&B® Express Tray, a combination of side and bottom wires must be cut and removed.

To reconnect lengths of tray, use a combination of both universal and adjustable splices shown on page I12.

H — Horizontal Tee or Cross



To create a horizontal tee junction from two straight T&B® Express Tray sections, cut and remove side wires at desired junction point. The number of wires to cut and remove will vary in accordance with the widths of tray forming the tee.

Bend side wires on both sides of the tray and reassemble using adjustable clamps to attach side rail edge and universal splices to attach tray bottoms.

To form a horizontal cross, proceed in the same way as for a tee repeating the process on the other side of the main run.

For 90˚ tee connections, cut side rails and attach at junction point using universal splice connectors shown on page I12.

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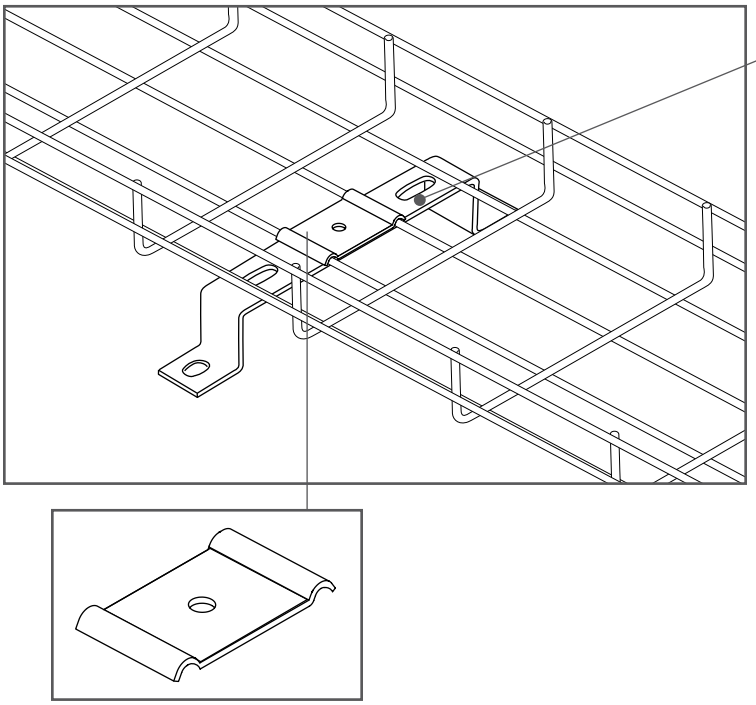
T&B® Express Tray

Support Methods

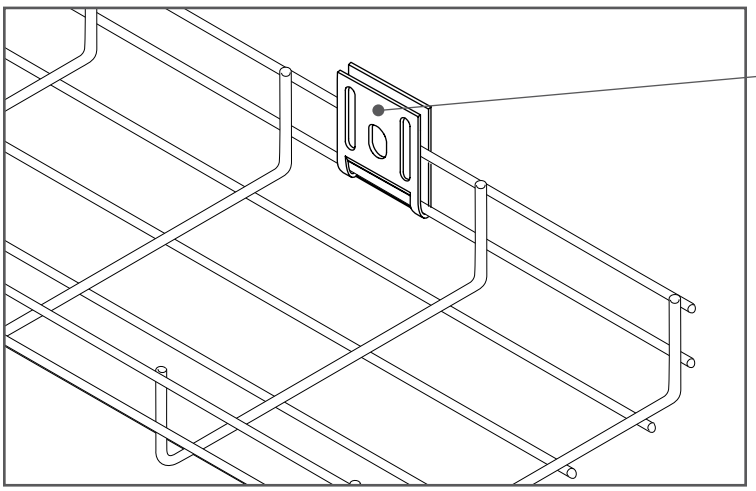
1 Stand-Off Bracket



Use stand-off brackets for floor or wall-mounted applications that require the tray to be raised off the mounting surface.

The stand-off bracket attaches to the T&B® Express Tray bottom as shown using a universal clamp and a standard ¼" hex bolt (not included).

2 Wall Clamp Attachment



Use wall clamps (see page I17) to attach the side rail of T&B® Express Tray U- and C-profiles directly to the wall surface. Use standard ⅜" or ½" hardware to attach (not included).

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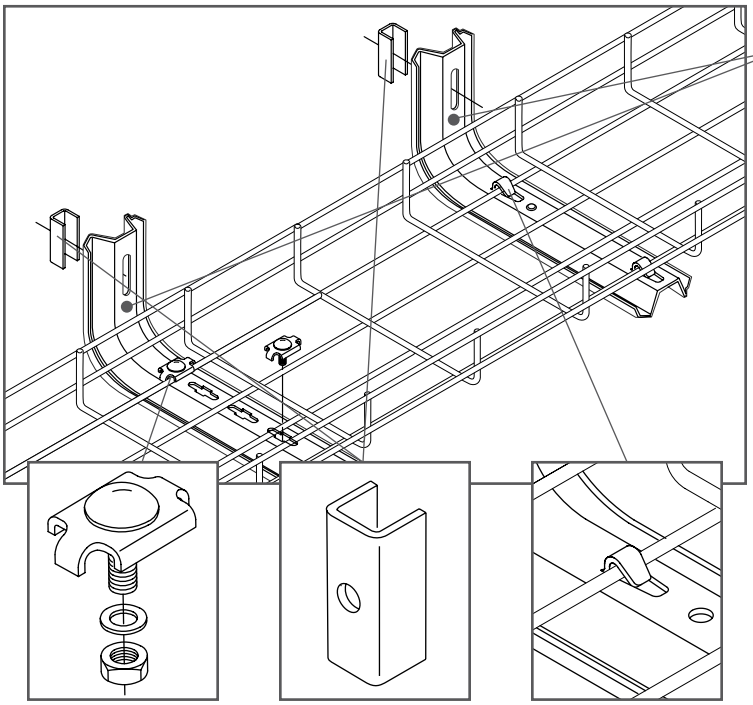
3 Wall-Mounted “L” Bracket



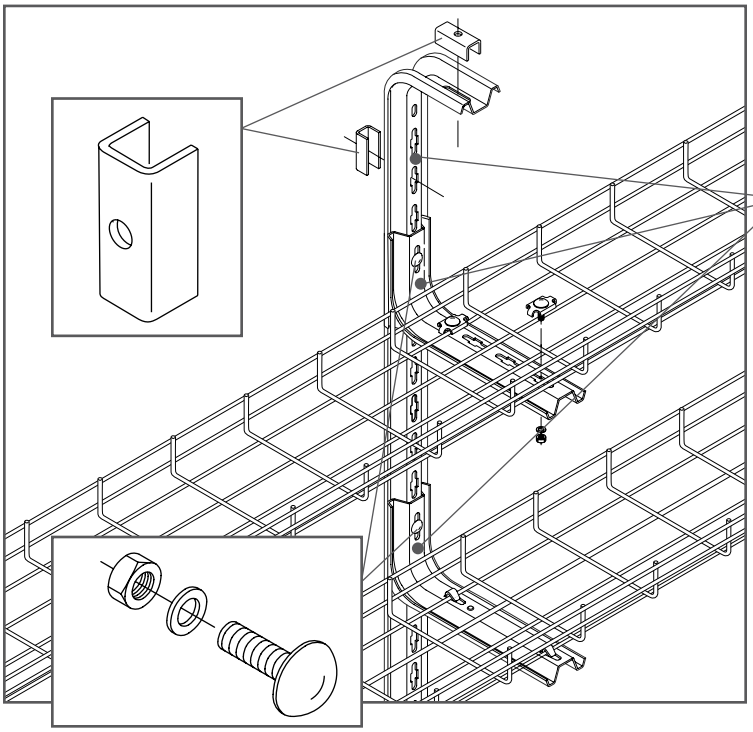
Two types of “L” brackets are available for wall-mounted supports: the standard “L” bracket and the Speed Mount “L” bracket (see pages I18 and I19).

Both brackets can be attached directly to the wall surface or to metal framing channel (see page I15). Use spacers (see page I20) to prevent distortion of bracket profile.

The tray is then attached to the bracket using either a bracket clamp (see page I13) in the case of the “L” bracket or integrated bend-down tabs for the Speed Mount bracket.

Only “L” brackets up to 12" wide can be used as horizontal wall-mounted supports. Larger widths are for vertical use only.

4 Tiered Brackets



Use brackets to create multi-level installations for applications that require separation of different types of cables.

To create this configuration, use standard “L” brackets (see page I18) or a combination of “L” and Speed Mount “L” brackets (see page I19). Brackets are attached together using the nested “J” or “L” bolting kit (see page I20).

Depending on the bracket, the tray can be attached using bracket clamps (standard “L” bracket) shown on page I13 or bend down tabs (Speed Mount “L” bracket).

Use spacers (see page I20) to prevent distortion of the bracket profile during tightening.

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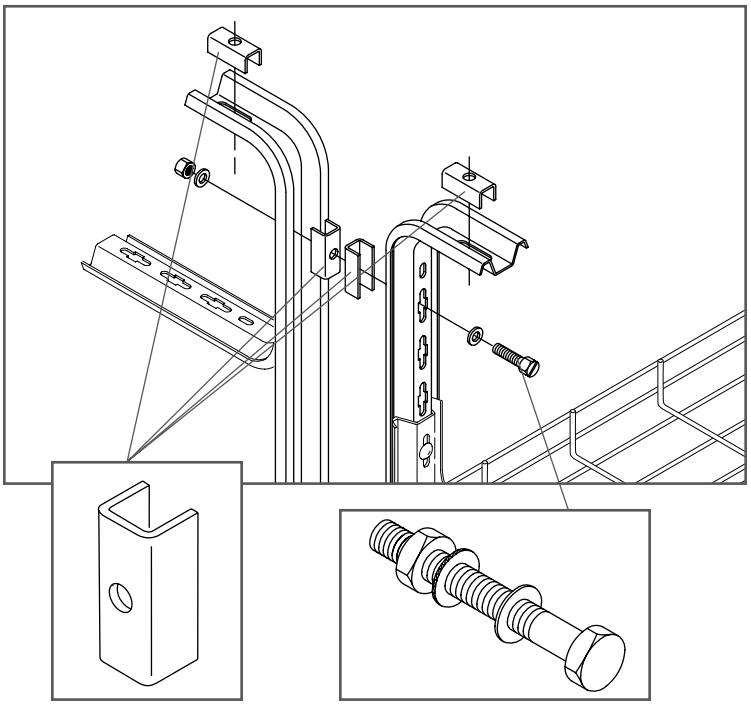
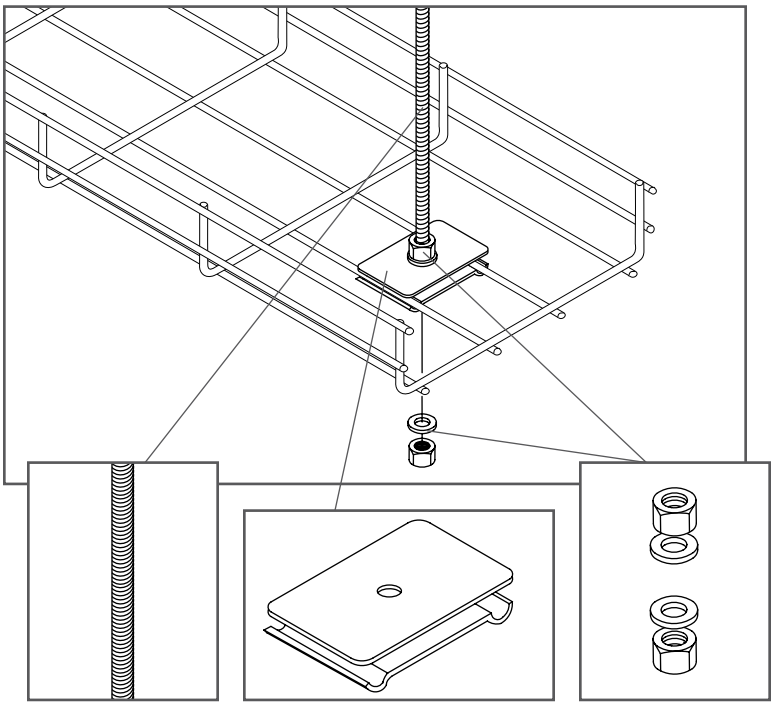
5 Back-to-Back Brackets



Brackets can be used in a variety of configurations for both wall and ceiling mounting. Attach the bracket profiles together using the back-to-back bracket bolting kit (see page I20) and spacers (see page I20) to prevent distortion of the bracket profile during tightening.

The number of spacers required will vary according to the length of the brackets used.

6 Center-Hung Clamp



For light-duty applications using 4", 8" or 12" U-profile T&B® Express Tray, a ceiling-mounted support made up of a single ⅜" diameter threaded rod (see page I15) and a threaded rod clamp (see page I14) can be used. The clamp attaches to tray mid-wires as illustrated. A nut and washer (see page I16) are secured on either side of the threaded rod attachment. Order nut and washer separately.

Because the load must be evenly distributed on either side of the clamp this attachment method can be used only with tray that has a central pair of wires. For this reason, this clamp cannot be used with C-profile T&B® Express Tray.

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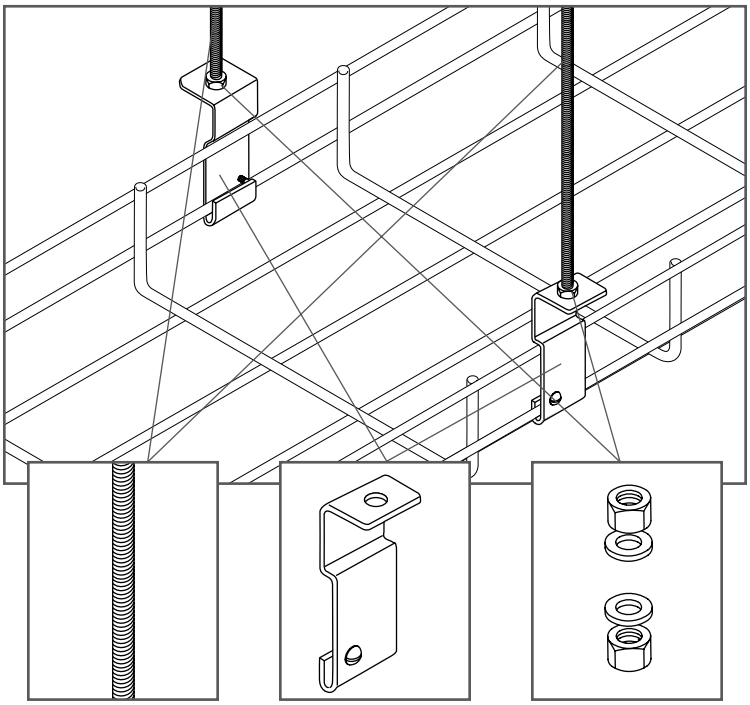
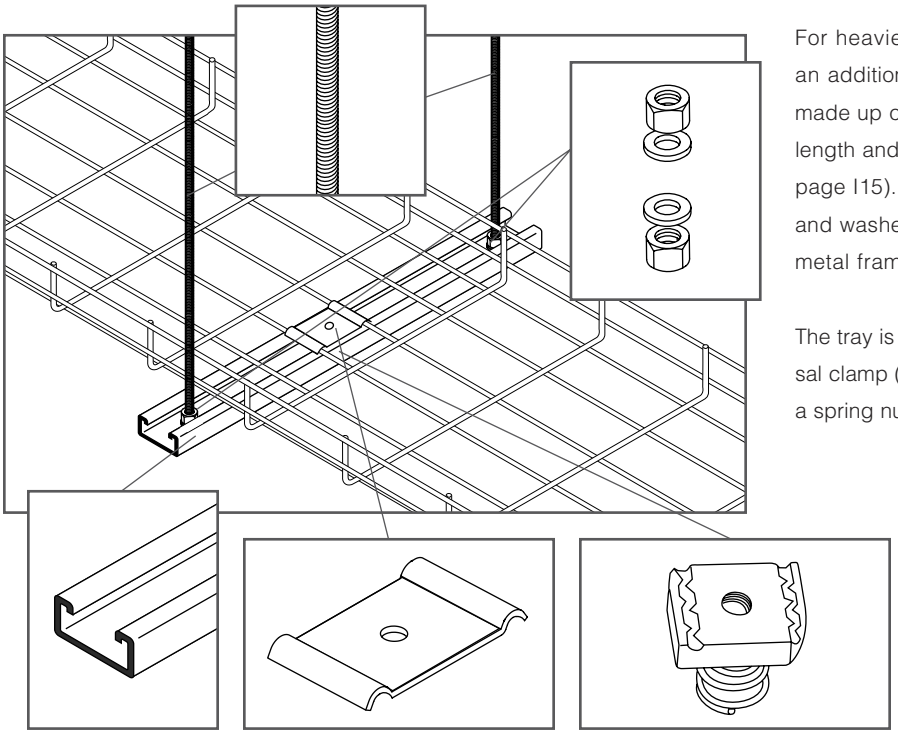
7 Side Hanger



Another method of ceiling-mounted support, side hangers (see page I14) are an alternative for tray that cannot be supported using the center- hung clamp. ¼" threaded rod (see page I15) is threaded into side hangers, the tray is hooked onto the hangers and pivoted into position. Tray is held securely in position by means of a set screw which prevents the wire from jumping out of the side hanger.

Use a nut and washer (see page I16) on the top and bottom of each threaded rod attachment.

8 Metal Framing Channel Trapeze



For heavier loads, the metal framing channel trapeze is an additional ceiling attachment method. The trapeze is made up of metal framing channel (see page I15), cut to length and drilled on site, and two ¼" threaded rods (see page I15). The two threaded rods are secured using nuts and washers (see page I16) on the top and bottom of the metal framing channel attachment.

The tray is then attached to the strut support using a universal clamp (see page I17), a ¼" hex bolt (not supplied) and a spring nut (see page I16).

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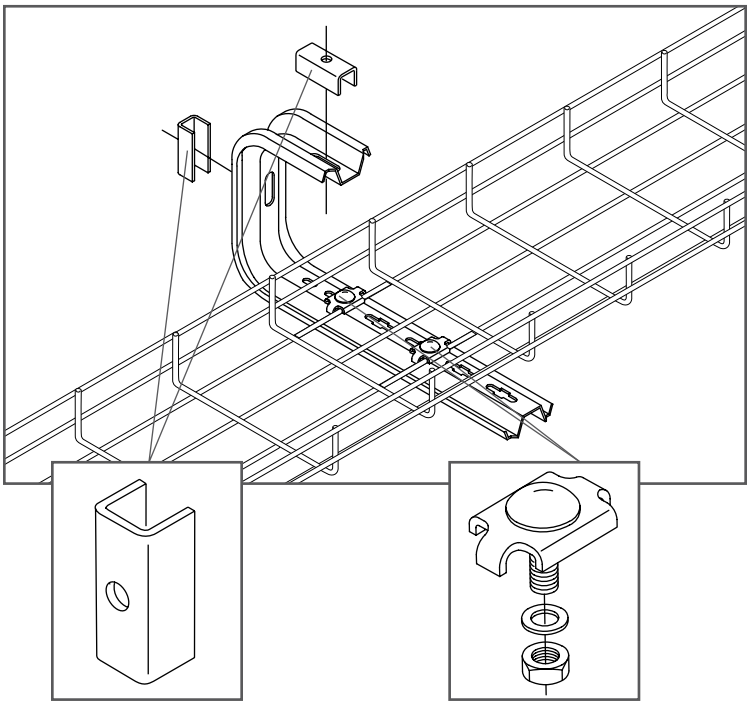
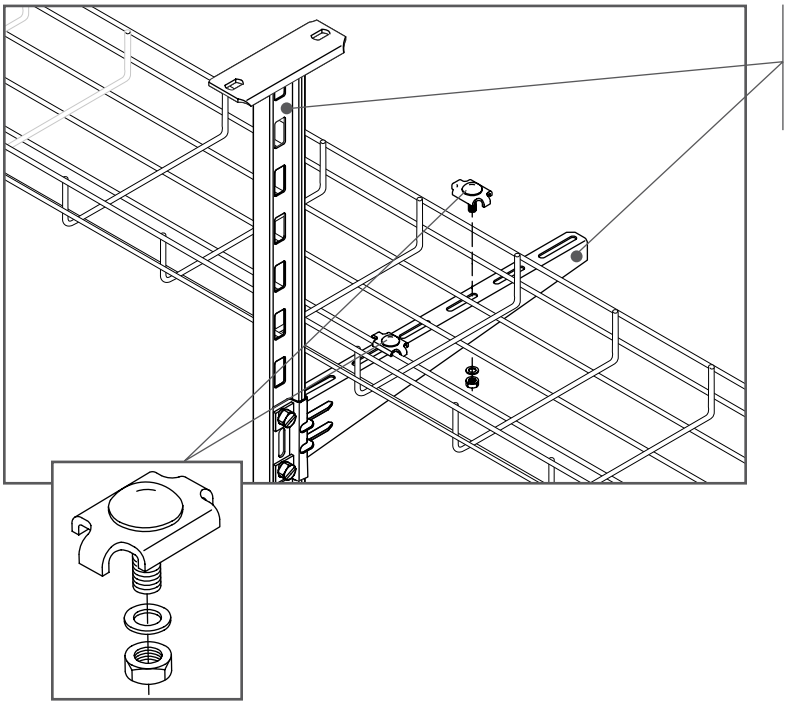
9 "J" Bracket



J-brackets are used for sections of cabling runs that run parallel and close to the ceiling and/or wall. The J-bracket mounts to the ceiling and/or wall using standard hardware (not supplied) and a spacer (see page I20) to prevent distortion of the bracket profile.

A bracket clamp (see page I13) is then used to attach the tray to the bracket.

10 Vertical Support to Ceiling including Bracket



For heavy duty, ceiling-mounted installations, the vertical post and bracket combination (see page I23) is ideal. The bracket attaches to the vertical post at any level using the pre-punched slots and supplied hardware (hardware included with bracket only).

T&B® Express Tray is then secured onto the bracket using bracket clamps (see page I13).

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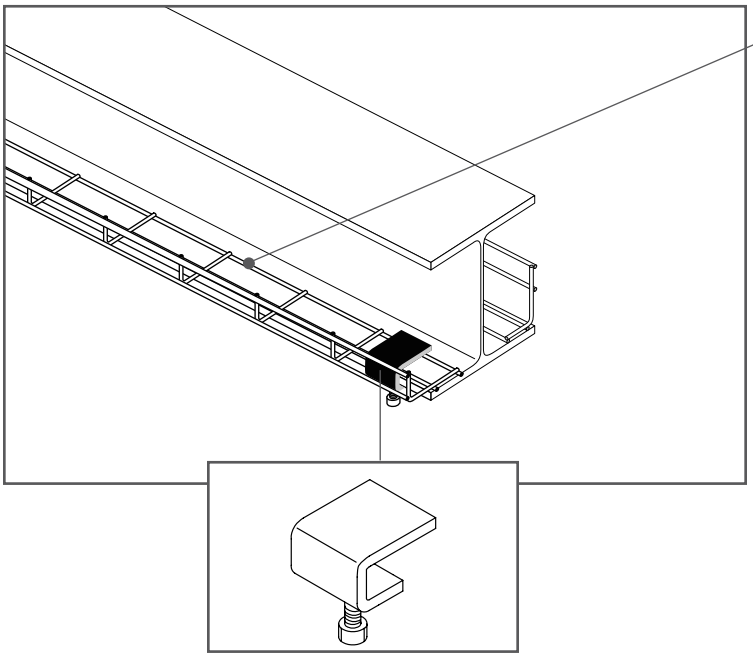
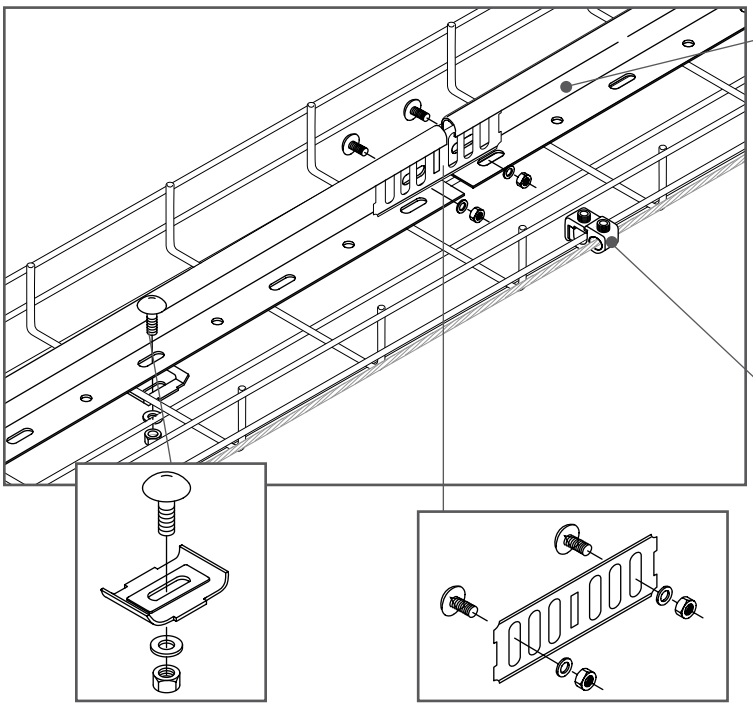
11 Beam Clamp



The beam clamp (see page I22) is used to attach L-profile T&B® Express Tray to steel beams and girders.

This attachment method takes advantage of existing structures and is quick and economical to install. Simply attach the L-profile tray using the beam clamp and the enclosed space created between the beam and the T&B® Express Tray can then be used to route cables. No other hardware is required.

12 Barrier Strip and Grounding Connector



For separating bundles of power, voice and data cables, barrier strips (see page I21) can be attached along the length of the tray bottom.

Attach the barrier strip using the barrier strip clamp (see page I21). Attach lengths of barrier strips together using the barrier strip connector (see page I22).

Thomas & Betts strongly recommends the use of a properly-sized, continuous ground wire attached to each T&B® Express Tray length. See page I22 for grounding connector details.

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T&B® Express Tray

Finishes and Loading Information

Finishes

T&B® Express Tray is offered in three material and finish combinations:

STEEL / ELECTROPLATED ZINC

By means of an electrolysis process after fabrication, a zinc coating is bonded to the surface of the steel tray. The electroplated zinc coating is ideally suited for indoor applications.

STEEL / HOT-DIPPED GALVANIZED

The zinc coating is provided by immersing the product in a molten zinc bath. This finish is ideal for outdoor installations exposed to corrosion accelerators such as pollution, sea air and other mild atmospheric conditions, and can also be used for indoor applications requiring additional corrosion resistance.

STAINLESS STEEL (TYPE 304)

Stainless steel with no additional surface treatment provides the highest protection against corrosion and is used primarily in marine environments, food processing and other industrial facilities, both indoor and outdoor.

2" DEEP U-PROFILE - Maximum Suggested Load (Imperial)

Width (in.)	Catalog number		Span (ft)					
	Electroplated	Hot-Dipped Galvanized Steel	5	6	7	8	9	10
2	ETU 2002SE10	ETU 2002SH10	31 lb/ft	23 lb/ft	19 lb/ft	15 lb/ft	11 lb/ft	7 lb/ft
4	ETU 2004SE10	ETU 2004SH10	34 lb/ft	27 lb/ft	22 lb/ft	18 lb/ft	14 lb/ft	10 lb/ft
6	ETU 2006SE10	ETU 2006SH10	38 lb/ft	31 lb/ft	25 lb/ft	21 lb/ft	17 lb/ft	13 lb/ft
8	ETU 2008SE10	ETU 2008SH10	41 lb/ft	35 lb/ft	29 lb/ft	25 lb/ft	21 lb/ft	17 lb/ft
12	ETU 2012SE10	ETU 2012SH10	43 lb/ft	38 lb/ft	32 lb/ft	28 lb/ft	24 lb/ft	20 lb/ft
16	ETU 2016SE10	ETU 2016SH10	45 lb/ft	40 lb/ft	35 lb/ft	31 lb/ft	27 lb/ft	23 lb/ft
18	ETU 2018SE10	–	46 lb/ft	41 lb/ft	36 lb/ft	32 lb/ft	28 lb/ft	24 lb/ft
20	ETU 2020SE10	ETU 2020SH10	47 lb/ft	42 lb/ft	37 lb/ft	33 lb/ft	29 lb/ft	25 lb/ft
24	ETU 2024SE10	ETU 2024SH10	50 lb/ft	45 lb/ft	39 lb/ft	35 lb/ft	31 lb/ft	27 lb/ft
		Deflection (in.)	1.299	1.457	1.575	1.693	1.811	1.929

Width (in.)	Catalog number	Span (ft)					
	Stainless Steel (304)	5	6	7	8	9	10
4	ETU 2004SS10	30 lb/ft	27 lb/ft	20 lb/ft	15 lb/ft	10 lb/ft	5 lb/ft
8	ETU 2008SS10	41 lb/ft	34 lb/ft	28 lb/ft	23 lb/ft	17 lb/ft	12 lb/ft
12	ETU 2012SS10	43 lb/ft	36 lb/ft	30 lb/ft	25 lb/ft	19 lb/ft	14 lb/ft
16	ETU 2016SS10	45 lb/ft	38 lb/ft	32 lb/ft	27 lb/ft	22 lb/ft	17 lb/ft
20	ETU 2020SS10	47 lb/ft	41 lb/ft	34 lb/ft	29 lb/ft	24 lb/ft	19 lb/ft
24	ETU 2024SS10	49 lb/ft	43 lb/ft	36 lb/ft	31 lb/ft	26 lb/ft	21 lb/ft
	Deflection (in.)	1.102	1.220	1.339	1.457	1.575	1.693

4" DEEP U-PROFILE - Maximum Suggested Load (Imperial)

Width (in.)	Catalog number		Span (ft)					
	Electroplated	Hot-Dipped Galvanized Steel	5	6	7	8	9	10
4	ETU 4004SE10	ETU 4004SH10	37 lb/ft	30 lb/ft	23 lb/ft	20 lb/ft	17 lb/ft	15 lb/ft
6	ETU 4006SE10	ETU 4006SH10	38 lb/ft	32 lb/ft	25 lb/ft	21 lb/ft	18 lb/ft	16 lb/ft
8	ETU 4008SE10	ETU 4008SH10	39 lb/ft	33 lb/ft	27 lb/ft	22 lb/ft	20 lb/ft	17 lb/ft
12	ETU 4012SE10	ETU 4012SH10	41 lb/ft	35 lb/ft	30 lb/ft	24 lb/ft	22 lb/ft	19 lb/ft
16	ETU 4016SE10	ETU 4016SH10	48 lb/ft	41 lb/ft	34 lb/ft	26 lb/ft	23 lb/ft	21 lb/ft
18	ETU 4018SE10	–	54 lb/ft	46 lb/ft	39 lb/ft	27 lb/ft	24 lb/ft	22 lb/ft
20	ETU 4020SE10	ETU 4020SH10	59 lb/ft	51 lb/ft	43 lb/ft	28 lb/ft	24 lb/ft	22 lb/ft
24	ETU 4024SE10	ETU 4024SH10	69 lb/ft	60 lb/ft	50 lb/ft	30 lb/ft	27 lb/ft	23 lb/ft
		Deflection (in.)	0.236	0.315	0.394	0.512	0.591	0.669

2½" DEEP C-PROFILE - Maximum Suggested Load (Imperial)

Width (in.)	Catalog number		Span (ft)					
	Hot-Dipped Galvanized Steel	Stainless Steel (304)	5	6	7	8	9	10
2	ETC 2502SH10	ETC 2502SS10						
4	ETC 2504SH10	ETC 2504SS10						
8	ETC 2508SH10	ETC 2508SS10	FOR LOADING DATA, CONSULT YOUR REGIONAL SALES OFFICE					
12	ETC 2512SH10	—						
16	ETC 2516SH10	—						
		Deflection (in.)						

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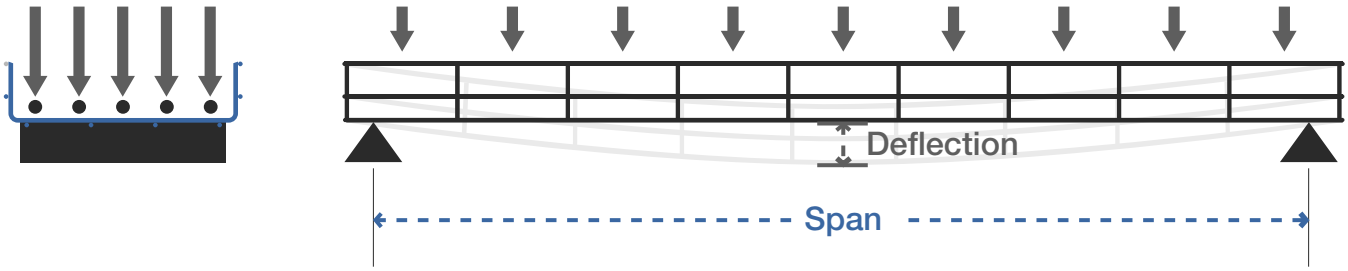
T&B® Express Tray

Finishes and Loading Information



2" DEEP U-PROFILE - Maximum Suggested Load (Metric)

Width (mm)	Catalog number		Span (m)					
	Electroplated	Hot-Dipped Galvanized Steel	1.50	1.75	2.00	2.50	2.75	3.00
50	ETU 2002SE10	ETU 2002SH10	46 kg/m	34 kg/m	28 kg/m	22 kg/m	16 kg/m	10 kg/m
100	ETU 2004SE10	ETU 2004SH10	51 kg/m	40 kg/m	33 kg/m	27 kg/m	21 kg/m	15 kg/m
150	ETU 2006SE10	ETU 2006SH10	57 kg/m	46 kg/m	37 kg/m	31 kg/m	25 kg/m	19 kg/m
200	ETU 2008SE10	ETU 2008SH10	61 kg/m	52 kg/m	43 kg/m	37 kg/m	31 kg/m	25 kg/m
300	ETU 2012SE10	ETU 2012SH10	64 kg/m	57 kg/m	48 kg/m	42 kg/m	36 kg/m	30 kg/m
400	ETU 2016SE10	ETU 2016SH10	67 kg/m	60 kg/m	52 kg/m	46 kg/m	40 kg/m	34 kg/m
450	ETU 2018SE10	–	69 kg/m	62 kg/m	54 kg/m	48 kg/m	42 kg/m	36 kg/m
500	ETU 2020SE10	ETU 2020SH10	70 kg/m	63 kg/m	55 kg/m	49 kg/m	43 kg/m	37 kg/m
600	ETU 2024SE10	ETU 2024SH10	75 kg/m	67 kg/m	58 kg/m	52 kg/m	46 kg/m	40 kg/m
		Deflection (mm)	33	37	40	43	46	49

Width (mm)	Catalog number	Span (m)					
	Stainless Steel (304)	1.50	1.75	2.00	2.50	2.75	3.00
100	ETU 2004SS10	45 kg/m	40 kg/m	30 kg/m	22 kg/m	15 kg/m	7 kg/m
200	ETU 2008SS10	61 kg/m	51 kg/m	42 kg/m	34 kg/m	25 kg/m	18 kg/m
300	ETU 2012SS10	64 kg/m	54 kg/m	45 kg/m	37 kg/m	28 kg/m	21 kg/m
400	ETU 2016SS10	67 kg/m	57 kg/m	48 kg/m	40 kg/m	33 kg/m	25 kg/m
500	ETU 2020SS10	70 kg/m	61 kg/m	51 kg/m	43 kg/m	36 kg/m	28 kg/m
600	ETU 2024SS10	73 kg/m	64 kg/m	54 kg/m	46 kg/m	39 kg/m	31 kg/m
	Deflection (mm)	28	31	34	37	40	43

4" DEEP U-PROFILE - Maximum Suggested Load (Metric)

Width (mm)	Catalog number		Span (m)					
	Electroplated	Hot-Dipped Galvanized Steel	1.50	1.75	2.00	2.50	2.75	3.00
100	ETU 4004SE10	ETU 4004SH10	55 kg/m	45 kg/m	34 kg/m	30 kg/m	25 kg/m	22 kg/m
150	ETU 4006SE10	ETU 4006SH10	57 kg/m	48 kg/m	37 kg/m	31 kg/m	27 kg/m	24 kg/m
200	ETU 4008SE10	ETU 4008SH10	58 kg/m	49 kg/m	40 kg/m	33 kg/m	30 kg/m	25 kg/m
300	ETU 4012SE10	ETU 4012SH10	61 kg/m	52 kg/m	45 kg/m	36 kg/m	33 kg/m	28 kg/m
400	ETU 4016SE10	ETU 4016SH10	72 kg/m	61 kg/m	51 kg/m	39 kg/m	34 kg/m	31 kg/m
450	ETU 4018SE10	–	80 kg/m	69 kg/m	58 kg/m	41 kg/m	35 kg/m	32 kg/m
500	ETU 4020SE10	ETU 4020SH10	88 kg/m	76 kg/m	64 kg/m	42 kg/m	36 kg/m	33 kg/m
600	ETU 4024SE10	ETU 4024SH10	103 kg/m	89 kg/m	75 kg/m	45 kg/m	40 kg/m	34 kg/m
		Deflection (mm)	6	8	10	13	15	17

2½" DEEP C-PROFILE - Maximum Suggested Load (Metric)

Width (mm)	Catalog number		Span (m)					
	Hot-Dipped Galvanized Steel	Stainless Steel (304)	1.50	1.75	2.00	2.50	2.75	3.00
50	ETC 2502SH10	ETC 2502SS10						
100	ETC 2504SH10	ETC 2504SS10						
200	ETC 2508SH10	ETC 2508SS10						
300	ETC 2512SH10	—						
400	ETC 2516SH10	—						
	Deflection (mm)							

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